

**LAND APPLICATION SITE**

**CARL D. UPSHAW JR.**

**CRCDU 1 – 17**

**CAROLINE COUNTY**

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 6-3-19 between Margarette C. Upshaw referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Caroline Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>88-A-68</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☒ The Landowner is the sole owner of the properties identified herein.  
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Margarette C. Upshaw</u>	Mailing Address <u>23035 Bagby Road</u> <u>Bowling Green, Va. 22427</u>	Landowner Signature <u>Margarette C. Upshaw</u>
By: Title* <u>Owner</u>	Phone No. <u>804-633-5510</u>	
<input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
<input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

**Permittee:**

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature <u>[Signature]</u>
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Margarette C. Upshaw

**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
  - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
  - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
  - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
  - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

  - a. Meat producing livestock shall not be grazed for 30 days,
  - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
  - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Margarette C. Upshaw  
Landowner's Signature

6-3-19  
Date

Cal D. Upshaw  
Operator's Signature

23035 Bagby Rd  
mailing address & phone  
Rowling Green, Va 22427

6/3/19  
Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 6-5-19 between Carl D. Upshaw Jr. referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Caroline Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>88-A-67,66,66C</u>			
<u>88-A-34,57,8,10</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☒ The Landowner is the sole owner of the properties identified herein.  
☒ The Landowner is one of multiple owners of the properties identified herein.

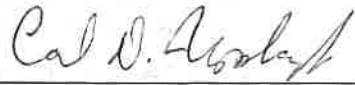
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Carl D. Upshaw Jr.</u>	Mailing Address <u>23035 Bagby Road</u> <u>Bowling Green, Va. 22427</u>	Landowner Signature 
By: <u>Carl D. Upshaw Jr.</u>	Phone No. <u>804-633-5510</u>	
Title* <u>Owner</u>		
* <input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
* <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

**Permittee:**

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature 
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Carl D. Upshaw, Jr.

**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
  - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
  - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
  - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
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4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

  - a. Meat producing livestock shall not be grazed for 30 days,
  - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
  - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Carl D. Upshaw, Jr.  
Landowner's Signature

6/5/19  
Date

Carl D. Upshaw, Jr.  
Operator's Signature

23035 Bagby Rd  
mailing address & phone  
Boiling Green, Va 22707

6/5/19  
Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 6-6-19 between Edwin T. Upshaw III referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

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Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>88-1-B</u>			
<u>88-A-3,4,5,10</u>			
<u>88-A-55</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.  
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

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<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Edwin T. Upshaw III</u>	Mailing Address <u>2333 Bagby Rd,</u> <u>Bowling Green, Va. 22427</u>	Landowner Signature <u>Edwin T Upshaw III</u>
By: Title* <u>Owner</u>	Phone No. <u>804-633-5803</u>	
<input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
<input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

**Permittee:**

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature <u>[Signature]</u>
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Edwin T. Upshaw III

**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

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  - a. Meat producing livestock shall not be grazed for 30 days,
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5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Edwin T Upshaw III

Landowner's Signature

6-6-19

Date

Edwin T Upshaw III

Operator's Signature

2333 Bagby Rd.

Bowling Green, Va.

mailing address & phone

22427

Date

6-6-19

# FARM DATA SHEET

<b>SITE NAME:</b>	Carl D. Upshaw, Jr.	<b>COUNTY:</b>	Caroline
<b>OWNER:</b>	See List Below	<b>OPERATOR:</b>	Carl D. Upshaw, Jr.
<b>OWNER'S</b>	See List Below	<b>OPERATOR'S</b>	23035 Bagby Road
<b>ADDRESS:</b>		<b>ADDRESS:</b>	Bowling Green, VA 22427
<b>OWNER'S TELEPHONE:</b>	See List Below	<b>OPERATOR'S TELEPHONE:</b>	804-633-5510
<b>GENERAL FARM TYPE:</b>	Row Crops/ Pasture	<b>CELL PHONE:</b>	804-994-3433
<b># CATTLE:</b>	50	<b>EMAIL:</b>	-
<b>LAGOON or SLURRY:</b>	None	<b>LATITUDE:</b>	F 1-10, 12-14 37.946 F 11 37.943 F 15-17 37.943
<b>TOPO QUAD:</b>	Sparta	<b>LONGITUDE:</b>	F 1-10, 12-14 -77.226 F 11 -77.210 F 15-17 -77.239
<b>COMMENTS:</b>		<b>METHOD OF DETERMINATION:</b>	Online Maps
Fields 1-6, 10 Margarette C. Upshaw 23035 Bagby Road Bowling Green, VA 22427	Fields 7-9, 11-17 Carl D. Upshaw, Jr. 23035 Bagby Road Bowling Green, VA 22427 804-633-5510	Fields 15-17 Edwin T. Upshaw III 23333 Bagby Road Bowling Green, VA 22427 804-633-5510	

SD 45  
6-20-19



**Field Changes  
Carl D Upshaw Jr  
Caroline County**

<u>New Field</u>	<u>Old Field</u>
CRCDU-01	CRCDU-09
CRCDU-02	CRCDU-10
CRCDU-03	CRCDU-11
CRCDU-04	CRCDU-07
CRCDU-05	CRCDU-12
CRCDU-06	CRCDU-10
CRCDU-07	CRCDU-08
CRCDU-08	CRCDU-15
CRCDU-09	CRCDU-14
CRCDU-10	CRCDU-13
CRCDU-11	CRCDU-23
CRCDU-12	CRCDU-16
CRCDU-13	CRCDU-18
CRCDU-14	CRCDU-19
CRCDU-15	CRCDU-06
CRCDU-16	CRCDU-05
CRCDU-17	CRCDU-05

# RECYC SYSTEMS, INC

## FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
CRCDU-01	19.0	-	-	-	-	YO 53	88-A-68	T 3589 F 1
CRCDU-02N	3.9	-	-	-	-	YO 53	88-A-68	T 3589 F 2
CRCDU-03N	18.9	1A Dec.-Apr. 4A Nov.-July	-	-	4A Dec.-June	YO 53	88-A-68	T 3589 F 3
CRCDU-04N	20.3	-	-	-	-	YO 53	88-A-68	T 3589 F 4
CRCDU-05N	12.5	-	-	-	-	YO 53	88-A-67 88-A-68	T 3589 F 5
CRCDU-06N	4.1	-	-	-	-	YO 53	88-A-68	T 3589 F 6
CRCDU-07N	9.0	-	-	-	-	YO 53	88-A-67 88-A-66	T 3589 F 7
CRCDU-08N	9.5	-	-	-	-	YO 53	88-A-67	T 3589 F 8
CRCDU-09N	22.5	-	-	-	-	YO 53	88-A-67	T 3589 F 9
CRCDU-10N	7.0	1A Dec.-Apr.	-	-	-	YO 53	88-A-68	T 3589 F 10

s/palao

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
CRCDU-11N	11.1	4A Nov.-July	-	-	4A Dec.-June	YO 53	88-A-67	T 3589 F 17
CRCDU-12N	5.6	-	-	-	-	YO 53	88-A-66	T 3777 F 4
CRCDU-13N	9.2	-	-	-	-	YO 53	88-A-66	T 3777 F 3
CRCDU-14N	8.1	-	-	-	-	YO 53	88-A-66 88-A-66C	T 3777 F 2
CRCDU-15N	63.1	-	-	-	-	YO 53	88-A-3	T 3585 F 1
CRCDU-16N	22.9	-	-	-	-	YO 53	88-A-4	T 3588 F 1
CRCDU-17N	3.5	-	-	-	-	YO 53	88-A-4	T 3587 F 1
TOTAL ACRES IN SITE	250.2							

5/22/2020

## Landowner Coordination Form

Signature not required on this page

[illegible]

Report Number: 18-029-0741

Account Number: 70594



"Every acre...Every year."™

7621 Whitepine Road, Richmond, VA 23237

Main 804-743-9401 • Fax 804-271-6446

www.waypointanalytical.com

Send To: Recyc Systems Inc  
Susan Trumbo  
8455 Whiteshop Road  
Culpepper VA 22701

Grower: Carl D Upshaw

## SOIL ANALYSIS REPORT

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 01/29/2018

Date Of Analysis: 01/30/2018

Date Of Report: 01/30/2018

Sample ID Field ID	Lab Number	OM	W/V	ENR	Phosphorus			Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C
		% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
* 4	23998	1.9 L		81	67 H			56 L	37 L	852 VH		6.9		0.1	4.8
* 3	24000	2.0 L		84	155 VH			65 L	59 M	635 H		6.3	6.88	0.5	4.3
* 11	24001	2.2 L		87	206 VH			83 M	82 M	682 H		6.5		0.3	4.6

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts		
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate		
7	3.0	6.4	88.8		2.1										
11	3.9	11.4	73.8		11.6										
23	4.6	14.9	74.1		6.5										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Paucic McGroary*

Paucic McGroary

Report Number: 19-015-0661

Account Number: 70594



7621 Whitepine Road, Richmond, VA 23237

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Susan Trumbo  
8455 Whiteshop Road  
Culpepper VA 22701

"Every acre...Every year."™

Grower: Carl Upshaw

## SOIL ANALYSIS REPORT

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 01/15/2019

Date Of Analysis: 01/16/2019

Date Of Report: 01/16/2019

Sample ID Field ID	Lab Number	OM	W/V	ENR	Phosphorus			Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C
		% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
14 <i>9</i>	21600	2.4 L		92	52 H			75 M	34 L	554 M		5.8	6.85	0.8	4.0

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts		
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate		
14	4.8	7.1	69.3		20.0			4.2 H	13 M						

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Paucic McGroary*

Paucic McGroary

Date Received: 01/15/2019

Date Of Report: 01/16/2019

## SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P <sub>2</sub> O <sub>5</sub> lb/A	Potash K <sub>2</sub> O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
14	Adjust pH to 6.5	0	1.3				18			2			

## Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Report Number: 19-015-0661

Account Number: 70594



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Grower: Carl Upshaw

## SOIL ANALYSIS REPORT

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 01/15/2019

Date Of Analysis: 01/16/2019

Date Of Report: 01/16/2019

Sample ID Field ID	Lab Number	OM	W/V	ENR	Phosphorus				Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C
		% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g	
4A	21595	2.9 M		101	104 VH	79		78 M	56 L	649 M	6.1	5.8	6.84	0.9	4.8	
4B	21596	2.2 L		89	53 H											
<del>5</del> 16,17	21597	2.9 M		101	32 M			51 VL	41 L	820 H		6.3	6.88	0.5	5.1	
<del>8</del> 7	21598	2.6 M		93	123 VH			50 VL	55 L	1069 VH		6.7		0.3	6.2	
<del>12</del> 5	21599	2.6 M		95	79 H			109 H	34 VL	736 H		6.0	6.85	0.8	5.0	

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts		
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate		
4A	4.2	9.7	67.6		18.8			6.3 H	19 M						
4B	5.3	6.0	81.5		8.3			3.4 M	27 H						
5	2.6	6.7	80.4		9.8			2.2 L	15 M						
8	2.1	7.4	86.2		4.8			4.2 H	13 M						
12	5.6	5.7	73.6		16.0			3.8 H	13 M						

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Paucie McGroary*

Paucie McGroary

THE PLANNER IS NOT STATE CERTIFIED

**Nutrient Management Plan Balance Sheet**  
**(Fall, 2019-Winter, 2021)**  
**Carl D. Upshaw, Jr.**  
**Planner: John Doe**

Tract: 3585

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/CRCU 15(N)	63/63	2019 2020	Wheat (grain) ... ..	100-60-60 -- --	0/0				100-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:



Tract: 3587

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosid Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/CRCU 17(N)	4/4	2019 2020	Wheat (grain) *** **	100-60-60 -- --	0/0				100-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3588

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/CRCU 16(N)	23/23	2019 2020	Wheat (grain) *** **	100-60-60 -- --	0/0				100-60-60	N/A			

**Commercial Application Methods:**

br - Broadcast ba - Banded sd - Sidedress

**Notes:**

Tract: 3589

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/CRCU 1(N)	19/19	2019 2020	Wheat (grain) ... ..	100-60-60 -- -- --	20/0				80-60-60	N/A			
2/CRCU 2(N)	4/4	2019	Grass Pasture	50-30-40	0/0				50-30-40	N/A			
3/CRCU 3(N)	19/19	2019 2020	Wheat (grain) ... ..	100-60-60 -- -- --	0/0				100-60-60	N/A			
4/CRCU 4(N)	20/20	2019 2020	Wheat (grain) ... ..	100-60-60 -- -- --	20/0				80-60-60	N/A			
5/CRCU 5(N)	13/13	2019 2020	Wheat (grain) ... ..	100-60-60 -- -- --	0/0				100-60-60	N/A			
6/CRCU 6(N)	4/4	2019	Grass Pasture	50-30-40	0/0				50-30-40	N/A			
7/CRCU 7(N)	9/9	2019 2020	Wheat (grain) ... ..	100-60-60 -- -- --	20/0				80-60-60	N/A			
8/CRCU 8(N)	10/10	2019	Grass Pasture	50-80-80	0/0				50-80-80	N/A			
9/CRCU 9(N)	23/23	2019 2020	Wheat (grain) ... ..	100-60-60 -- -- --	0/0				100-60-60	N/A			
10/CRCU 10(N)	7/7	2019	Fescue grass hay mt.	90-80-170	0/0				90-80-170	N/A			
17/CRCU 11(N)	11/11	2019 2020	Wheat (grain) ... ..	100-60-60 -- -- --	0/0				100-60-60	N/A			

**Commercial Application Methods:**

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3777

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
4/CRCU 12(N)	6/6	2019 2020	Wheat (grain) ... ..	100-60-60 -- --	20/0				80-60-60	N/A			
3/CRCU 13(N)	9/9	2019 2020	Wheat (grain) ... ..	100-60-60 -- --	20/0				80-60-60	N/A			
2/CRCU 14(N)	8/8	2019 2020	Wheat (grain) ... ..	100-60-60 -- --	20/0				80-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
3585	CRCDU 15	63	[No Test]						
3587	CRCDU 17	4	[No Test]						
3588	CRCDU 16	23	[No Test]						
3589	CRCDU 1	19	[No Test]						
3589	CRCDU 2	4	[No Test]						
3589	CRCDU 3	19	[No Test]						
3589	CRCDU 4	20	[No Test]						
3589	CRCDU 5	13	[No Test]						
3589	CRCDU 6	4	[No Test]						
3589	CRCDU 7	9	[No Test]						
3589	CRCDU 8	10	[No Test]						
3589	CRCDU 9	23	[No Test]						
3589	CRCDU 10	7	[No Test]						
3589	CRCDU 11	11	[No Test]						
3777	CRCDU 12	6	[No Test]						
3777	CRCDU 13	9	[No Test]						
3777	CRCDU 14	8	[No Test]						

### **Field Productivities for Major Crops**

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
3585	3585/1	CRCDU 15	63	Kempsville	IIIa	II	Not Suited	II	
3587	3587/1	CRCDU 17	4	Kempsville	IIIa	II	Not Suited	II	
3588	3588/1	CRCDU 16	23	Kempsville	IIIa	II	Not Suited	II	
3589	3589/1	CRCDU 1	19	Kempsville	IIIa	II	Not Suited	III	
	3589/2	CRCDU 2	4	Kempsville	IIIa	II	Not Suited	III	
	3589/3	CRCDU 3*	19	Bojac1	IIIb	II	III	III	High Leaching, Poor Drain
	3589/4	CRCDU 4	20	Kempsville	IIIa	II	Not Suited	II	
	3589/5	CRCDU 5	13	Kempsville	IIIa	II	Not Suited	III	
	3589/6	CRCDU 6	4	Kempsville	IIIb	II	Not Suited	III	
	3589/7	CRCDU 7	9	Kempsville	IIIa	II	III	II	
	3589/8	CRCDU 8	10	Kempsville	IIIa	II	Not Suited	II	
	3589/9	CRCDU 9	23	Kempsville	IIIa	II	Not Suited	III	
	3589/10	CRCDU 10	7	Altavista	IIa	I	III	II	
	3589/17	CRCDU 11*	11	Bojac1	IVb	II	Not Suited	III	High Leaching, Poor Drain
3777	3777/4	CRCDU 12*	6	Kempsville	IIIa	II	Not Suited	III	High Leaching, High Slope
	3777/3	CRCDU 13	9	Kempsville	IIIa	II	Not Suited	III	
	3777/2	CRCDU 14	8	Kempsville	IIIa	II	Not Suited	II	

\* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applicaions.

### **Yield Range**

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

## Farm Summary Report

**Plan:**            **New Plan**        **Fall, 2019 - Winter, 2021**

**Farm Name:**    **Carl D. Upshaw, Jr.**

Location:        Caroline

Specialist:      John Doe

N-based Acres: 250.2

P-based Acres: 0.0

**Tract Name:**    **3585**

FSA Number:    3585

Location:            Caroline

**Field Name:**     **CRCDU 15**

Total Acres:    63.10    Usable Acres:   63.10

FSA Number:    1

Tract:            3585

Location:            Caroline

Slope Class:    B            Hydrologic Group:    B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

### *P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

### **Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

### **Soils:**

PERCENT	SYMBOL	SOIL SERIES
37	11A	Emporia Kempsville
41	11B	Emporia Kempsville
12	21C	Kempsville Slagle



10

22A Slagle

**Field Warnings:**

**Tract Name:** 3587

FSA Number: 3587

Location: Caroline

**Field Name:** CRCDU 17

Total Acres: 3.50 Usable Acres: 3.50

FSA Number: 1

Tract: 3587

Location: Caroline

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
48	11B	Emporia Kempsville
52	21C	Kempsville Slagle

**Field Warnings:**

**Tract Name:** 3588

FSA Number: 3588

Location: Caroline

**Field Name:** CRCDU 16

Total Acres: 22.90 Usable Acres: 22.90  
FSA Number: 1  
Tract: 3588  
Location: Caroline  
Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
48	21C	Kempsville Slagle
52	11B	Emporia Kempsville

**Field Warnings:**

**Tract Name:** 3589  
FSA Number: 3589  
Location: Caroline

**Field Name:** CRCDU 1

Total Acres: 19.00 Usable Acres: 19.00  
FSA Number: 1  
Tract: 3589  
Location: Caroline  
Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
13	10E	Emporia Kempsville Remlik
49	11B	Emporia Kempsville
16	11C	Emporia Kempsville
23	21C	Kempsville Slagle

**Field Warnings:**

**Field Name:** CRCDU 2

Total Acres: 3.90 Usable Acres: 3.90

FSA Number: 2

Tract: 3589

Location: Caroline

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
51	11B	Emporia Kempsville
49	11C	Emporia Kempsville

**Field Warnings:****Field Name:** CRCDU 3

Total Acres: 18.90 Usable Acres: 18.90

FSA Number: 3

Tract: 3589

Location: Caroline

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
29	1A	Altavista
11	4A	Bibb Chastain
45	5B	Bojac1
15	10E	Emporia Kempsville Remlik

**Field Warnings:***Environmentally Sensitive Soils due to:**Soils with potential for leaching based on soil texture or excessive drainage*

*Soils with high potential for subsurface lateral flow based on soil texture and poor drainage*

*Soils with perent slope in excess of 15%*

**Field Name: CRCDU 4**

Total Acres: 20.30 Usable Acres: 20.30

FSA Number: 4

Tract: 3589

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
86	11B	Emporia Kempsville
11	21C	Kempsville Slagle
4	22B	Slagle

**Field Warnings:**

**Field Name: CRCDU 5**

Total Acres: 12.50 Usable Acres: 12.50

FSA Number: 5

Tract: 3589

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
4	10E	Emporia Kempsville Remlik
81	11B	Emporia Kempsville
15	11C	Emporia Kempsville

**Field Warnings:**

**Field Name:** CRCDU 6

Total Acres: 4.10 Usable Acres: 4.10

FSA Number: 6

Tract: 3589

Location: Caroline

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE            PH       P                            K                            Lab  
[NO TEST]

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
10	10E	Emporia Kempsville Remlik
30	11B	Emporia Kempsville
61	11C	Emporia Kempsville

**Field Warnings:****Field Name:**        **CRCDU 7**

Total Acres:    9.00    Usable Acres:    9.00

FSA Number:    7

Tract:           3589

Location:        Caroline

Slope Class:    B        Hydrologic Group:        B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE            PH       P                            K                            Lab  
[NO TEST]

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
2	11A	Emporia Kempsville
67	11B	Emporia Kempsville
2	21C	Kempsville Slagle
30	22B	Slagle

**Field Warnings:****Field Name: CRCDU 8**

Total Acres: 9.50 Usable Acres: 9.50

FSA Number: 8

Tract: 3589

Location: Caroline

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (&gt;75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
36	21C	Kempsville Slagle
38	11B	Emporia Kempsville
26	10E	Emporia Kempsville Remlik

**Field Warnings:****Field Name: CRCDU 9**

Total Acres: 22.50 Usable Acres: 22.50

FSA Number: 9

Tract: 3589

Location: Caroline

Slope Class: C Hydrologic Group: B



Riparian buffer width: 0 ft  
Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
20	10E	Emporia Kempsville Remlik
80	11B	Emporia Kempsville

**Field Warnings:**

**Field Name:** CRCDU 10

Total Acres: 7.00 Usable Acres: 7.00

FSA Number: 10

Tract: 3589

Location: Caroline

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
------	----	---	---	-----

[NO TEST]

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
40	11B	Emporia Kempsville
60	1A	Altavista

**Field Warnings:**

**Field Name:** CRCDU 11

Total Acres: 11.10 Usable Acres: 11.10

FSA Number: 17

Tract: 3589

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
7	4A	Bibb Chastain
88	5B	Bojac1
5	10E	Emporia Kempsville Remlik

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

*Soils with potential for leaching based on soil texture or excessive drainage*

*Soils with high potential for subsurface lateral flow based on soil texture and poor drainage*

*Soils with perent slope in excess of 15%*

**Tract Name:** 3777

**FSA Number:** 3777

**Location:** Caroline

**Field Name:** CRCDU 12

**Total Acres:** 5.60 **Usable Acres:** 5.60

**FSA Number:** 4

**Tract:** 3777

**Location:** Caroline

**Slope Class:** D **Hydrologic Group:** B

**Riparian buffer width:** 0 ft

**Distance to stream:** 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
45	10E	Emporia Kempsville Remlik
55	11B	Emporia Kempsville

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

*Soils with potential for leaching based on soil texture or excessive drainage*

*Soils with perent slope in excess of 15%*

**Field Name: CRCDU 13**

Total Acres: 9.20 Usable Acres: 9.20

FSA Number: 3

Tract: 3777

Location: Caroline

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
23	10E	Emporia Kempsville Remlik
17	11A	Emporia Kempsville
53	11B	Emporia Kempsville
7	21C	Kempsville Slagle

**Field Warnings:**

**Field Name: CRCDU 14**

Total Acres: 8.10 Usable Acres: 8.10

FSA Number: 2

Tract: 3777

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

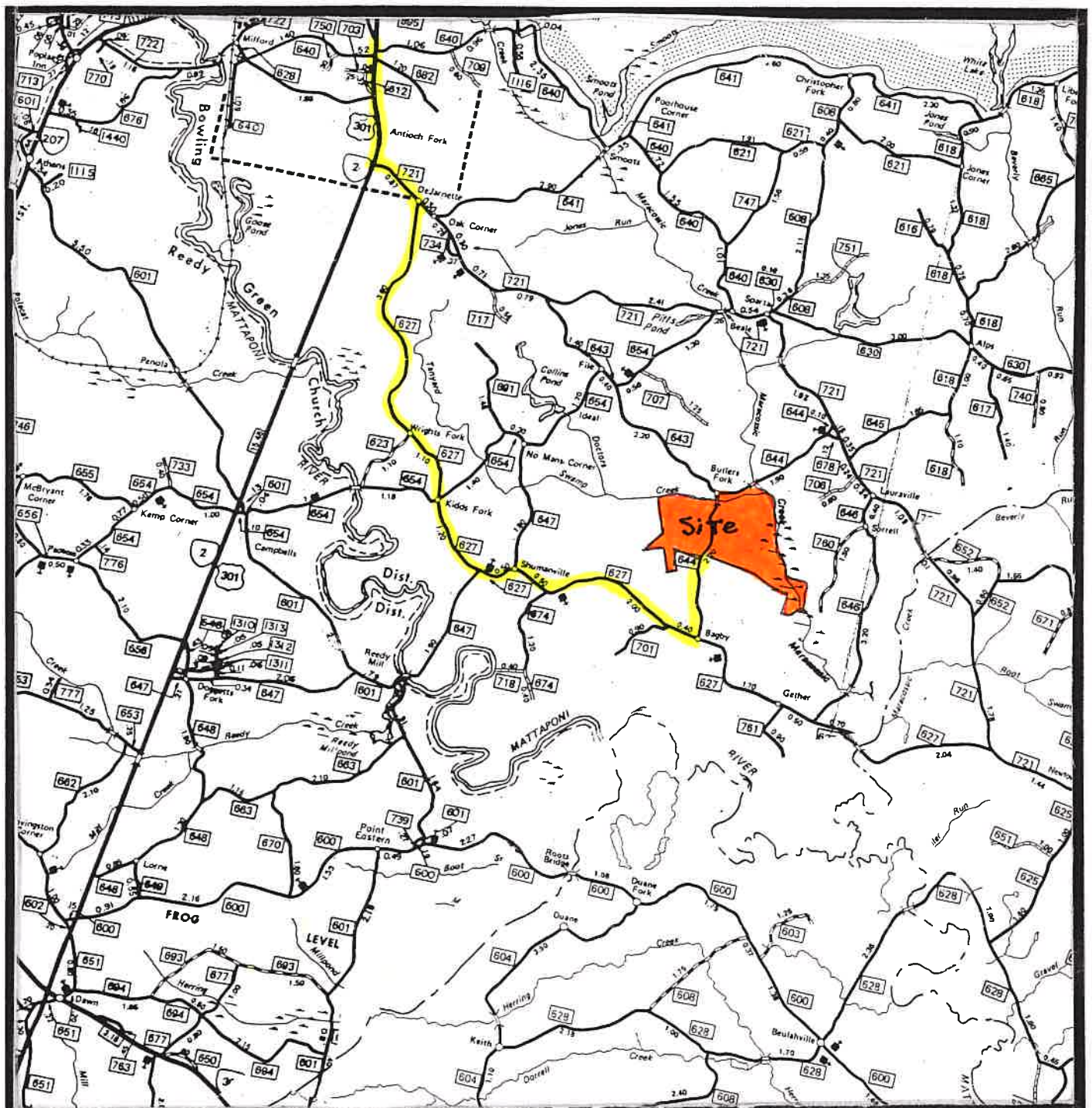
PERCENT	SYMBOL	SOIL SERIES
3	10E	Emporia Kempsville Remlik
66	11A	Emporia Kempsville
5	11B	Emporia Kempsville
19	21C	Kempsville Slagle
7	22A	Slagle

**Field Warnings:**

# MAPS

# Recyc Systems<sup>TM</sup> Inc.

(Biosolids Land Application)



**Scale:** 1" = 2 Miles

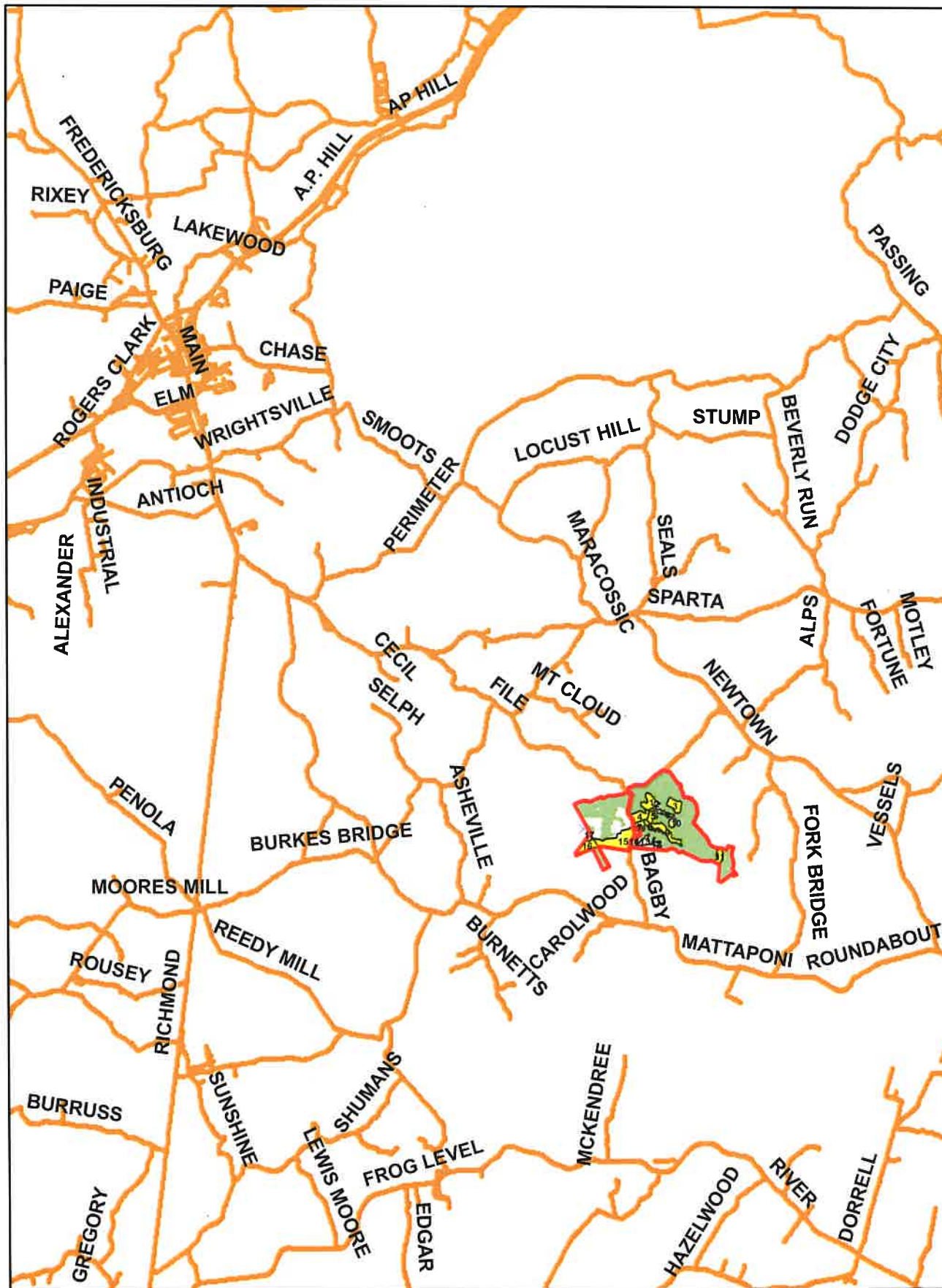
6-20-19

Truck Route marked  
in Yellow

**VICINITY MAP**







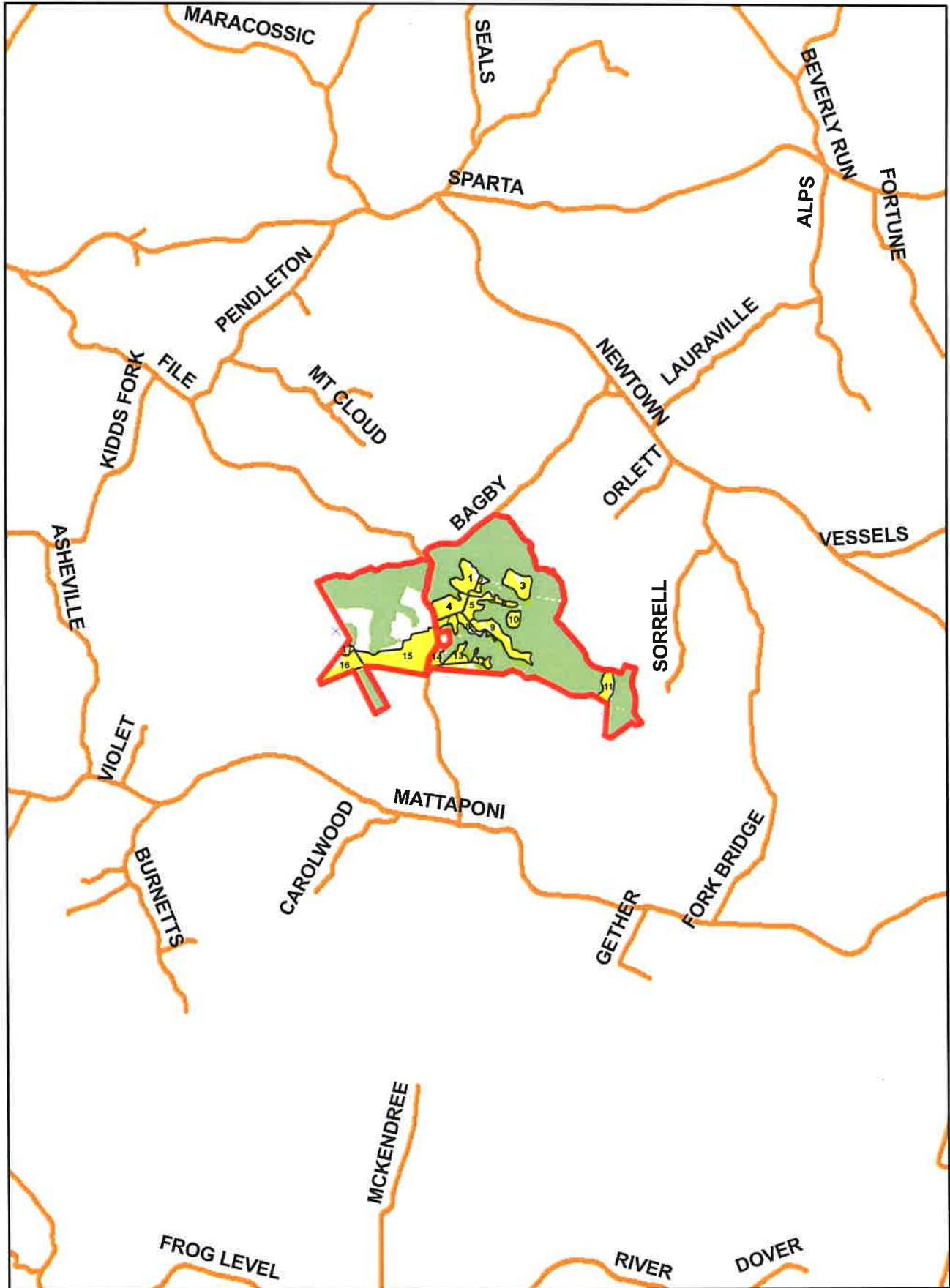
6-20-19

VICINITY MAP

1 in = 2 miles







6-20-19

VICINITY MAP

1 in = 1 mile





The map displays a complex network of land parcels, each identified by a unique alphanumeric code. The parcels are primarily labeled with codes starting with '74-A' and '88-A'. The map also shows several geographical features, including 'MT CLEAR', 'MT CLOUD', 'Biscayne Bay', and 'MATTAPONI'. A red line with yellow highlights traces a path through the area, possibly indicating a boundary or a specific route. The map is oriented with North at the top.

# TAX MAP

1 in = 2,000 feet

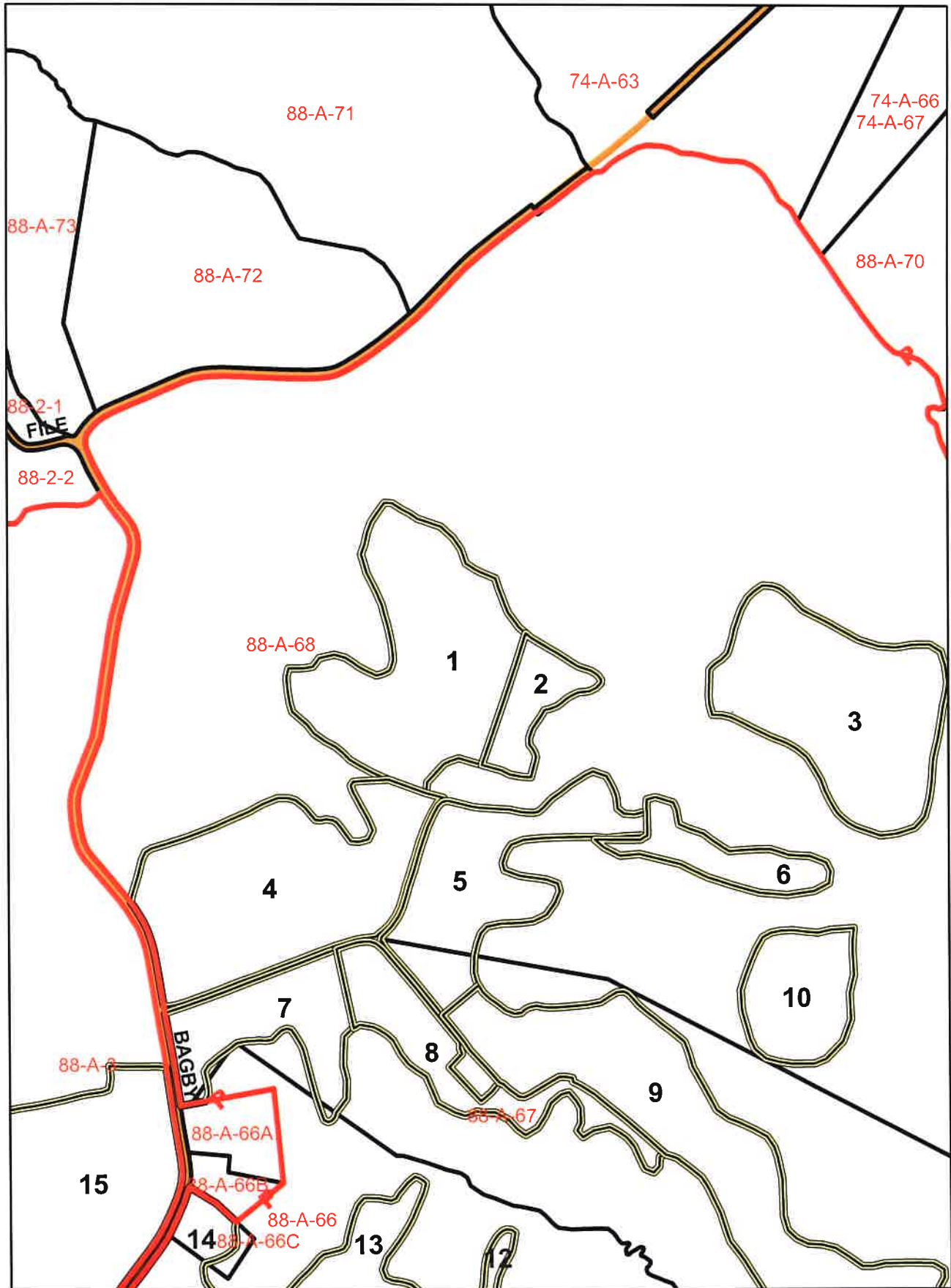






**Recyc Systems<sup>®</sup>**  
Inc.

CARL D UPSHAW JR

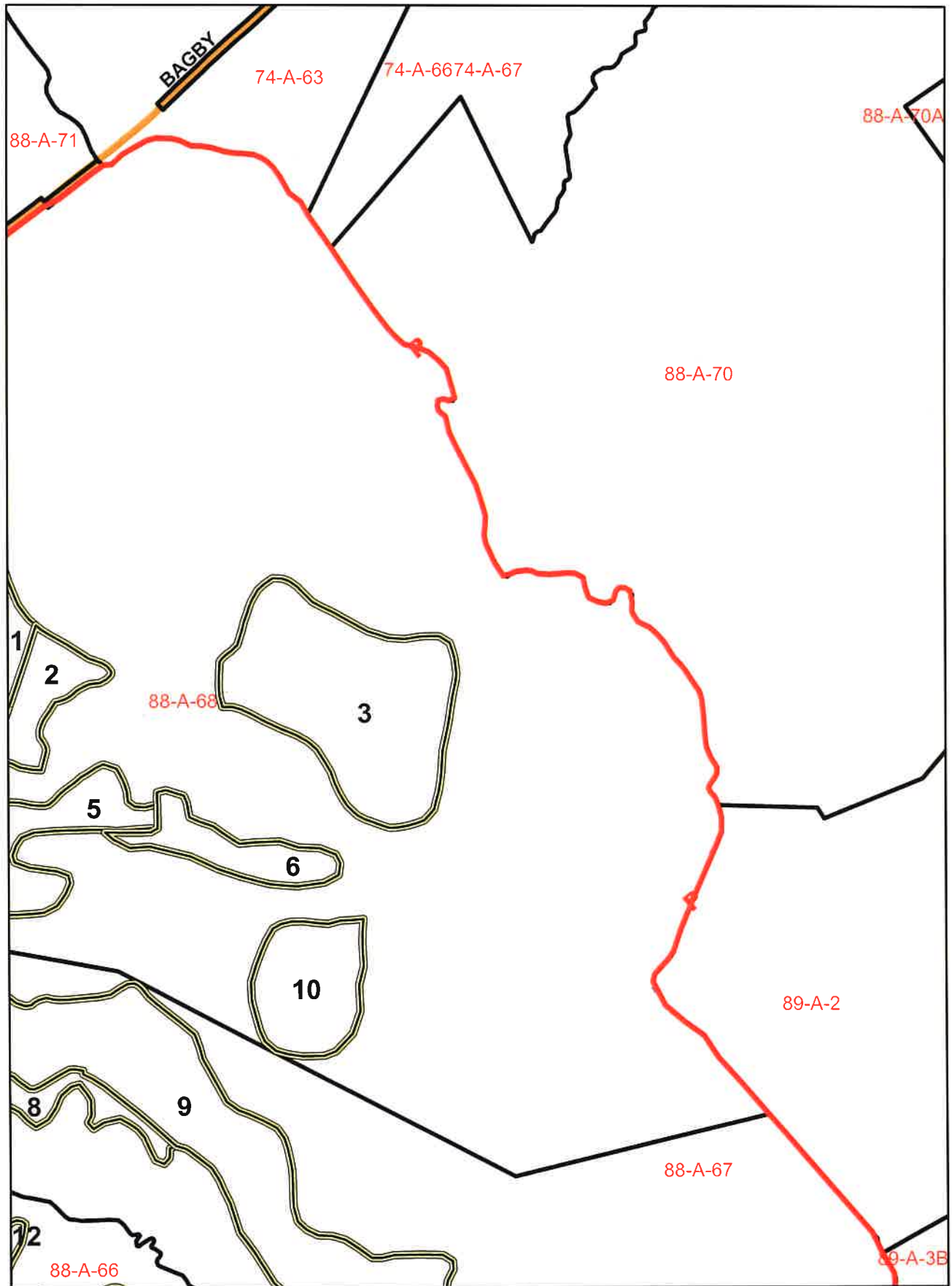


6-20-19

**TAX MAP**

1 in = 660 feet





6-20-19

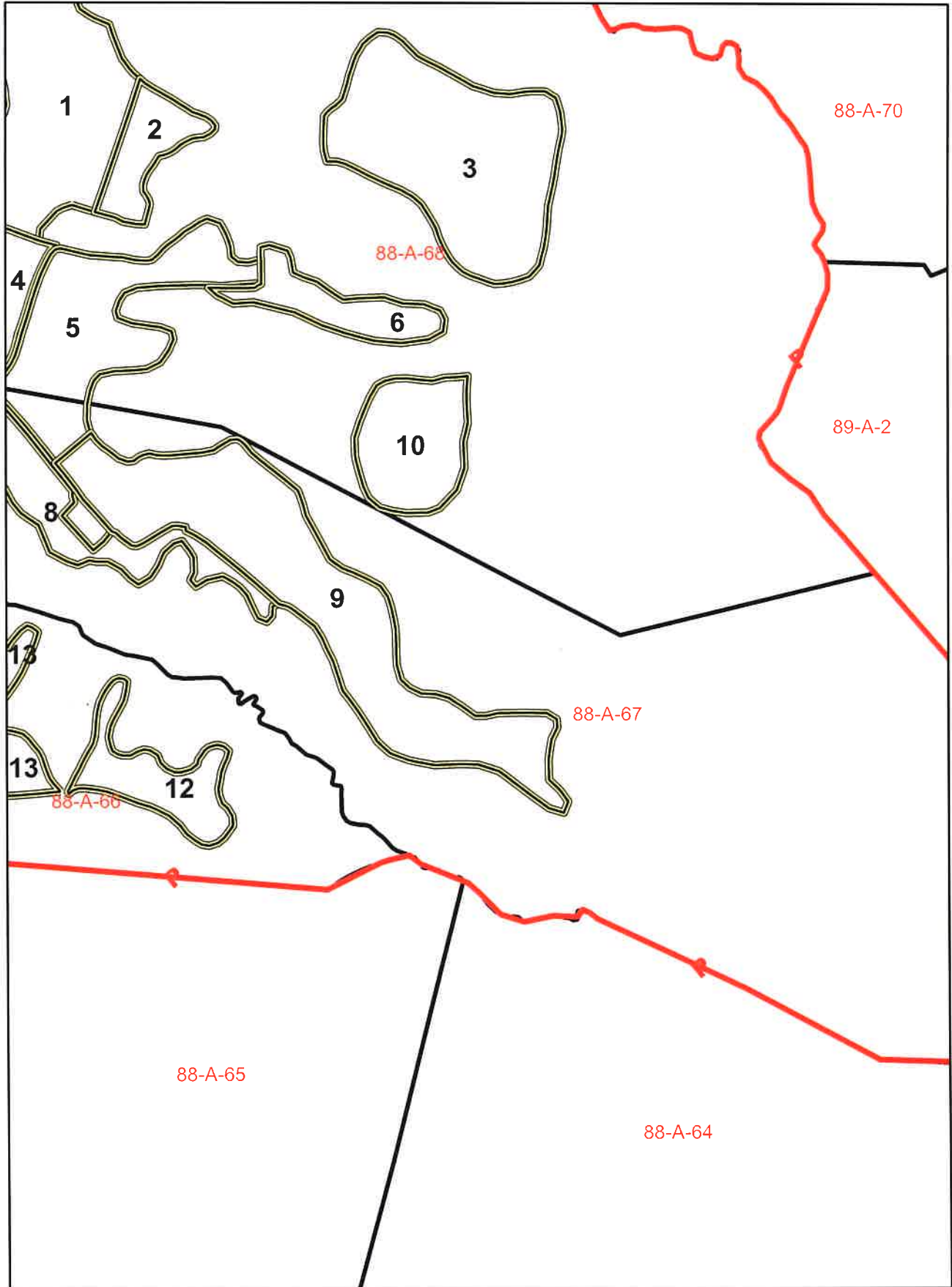
TAX MAP

1 in = 660 feet



**Recyc Systems<sup>®</sup>**  
Inc.

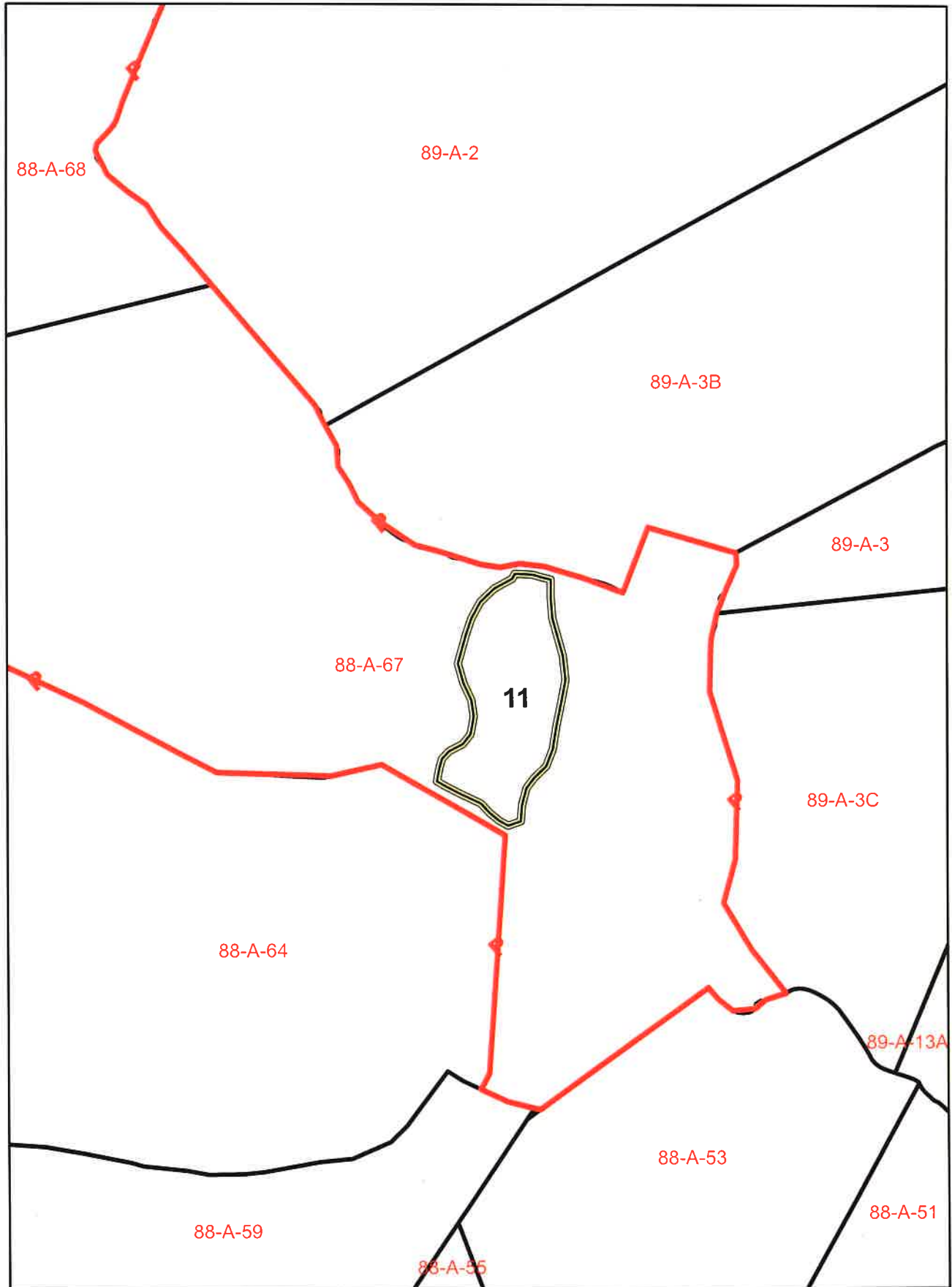
CARL D UPSHAW JR



6-20-19

**TAX MAP**

1 in = 660 feet

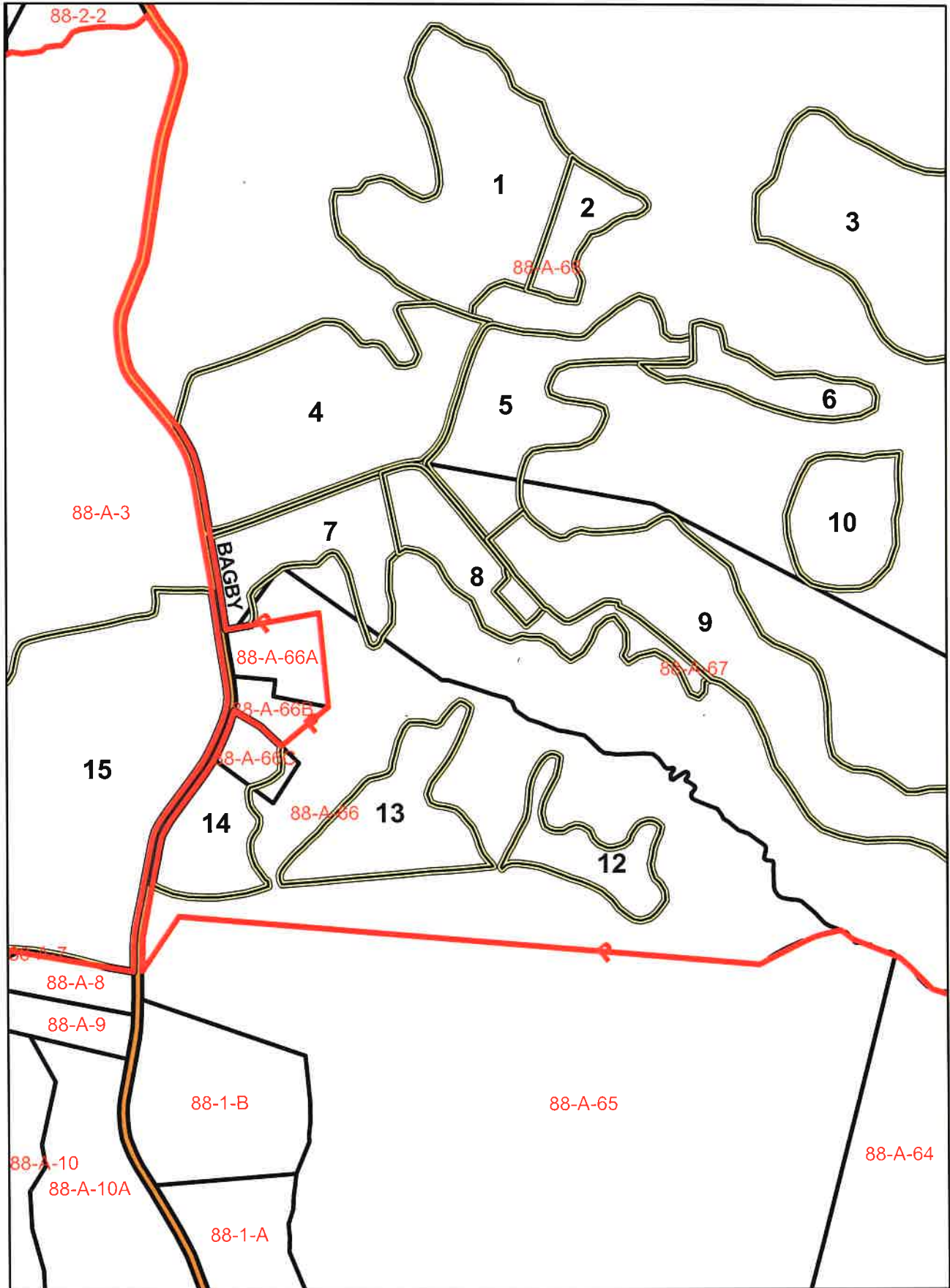


6-20-19

**TAX MAP**

1 in = 660 feet





6-20-19

**TAX MAP**

1 in = 660 feet



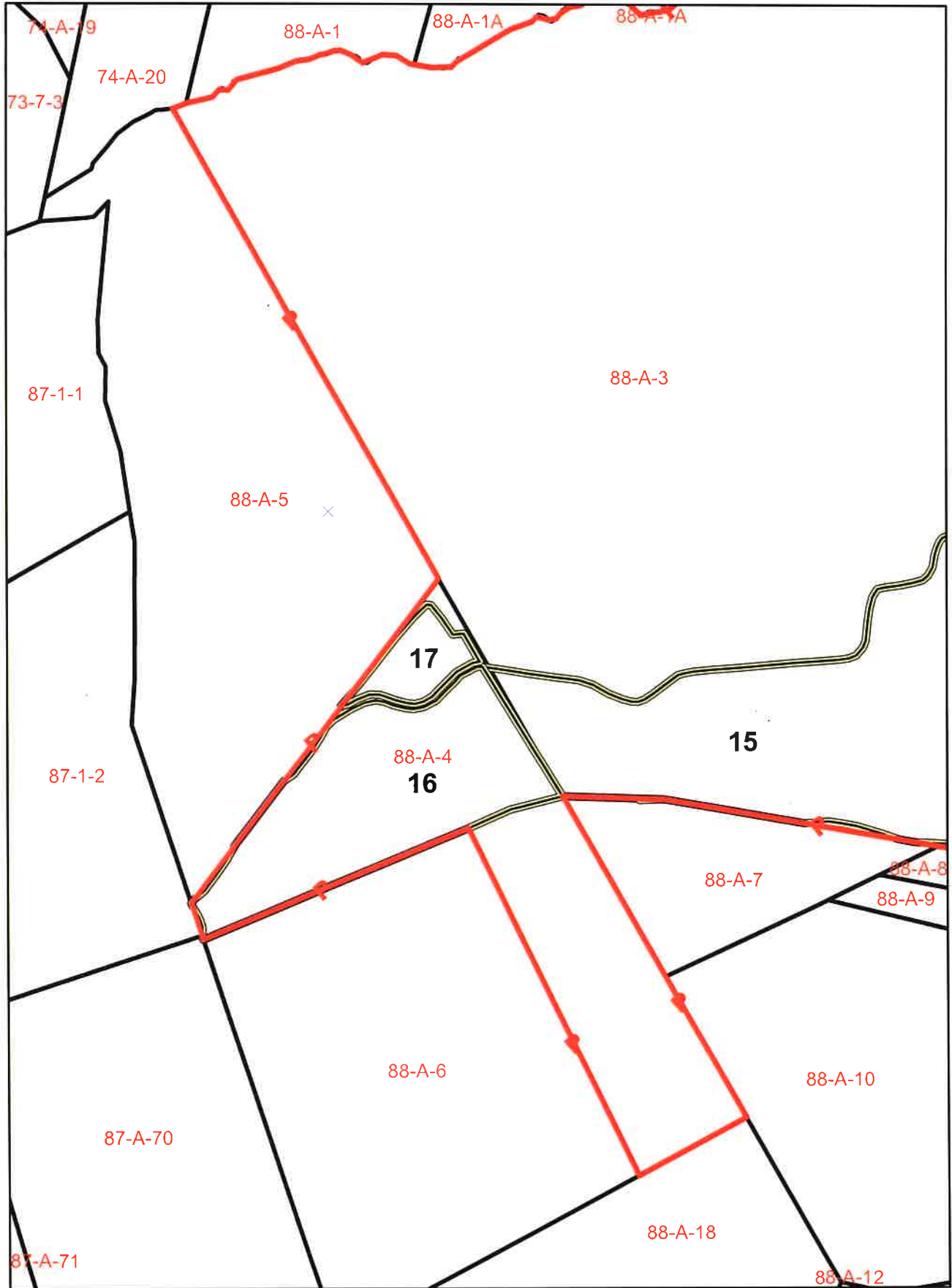


# TAX MAP

1 in = 660 feet



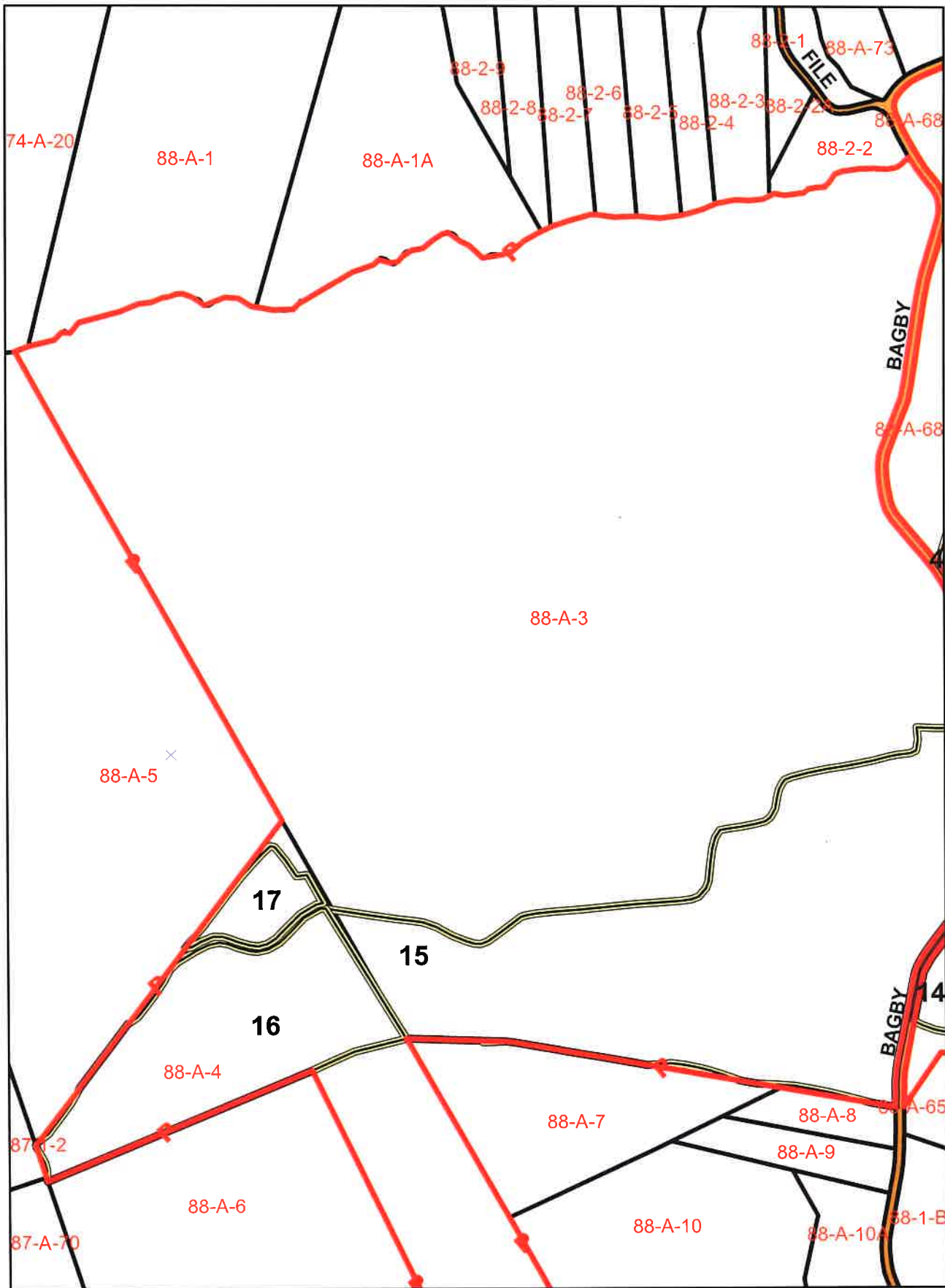




6-20-19

**TAX MAP**

1 in = 660 feet



6-20-19

TAX MAP

1 in = 660 feet

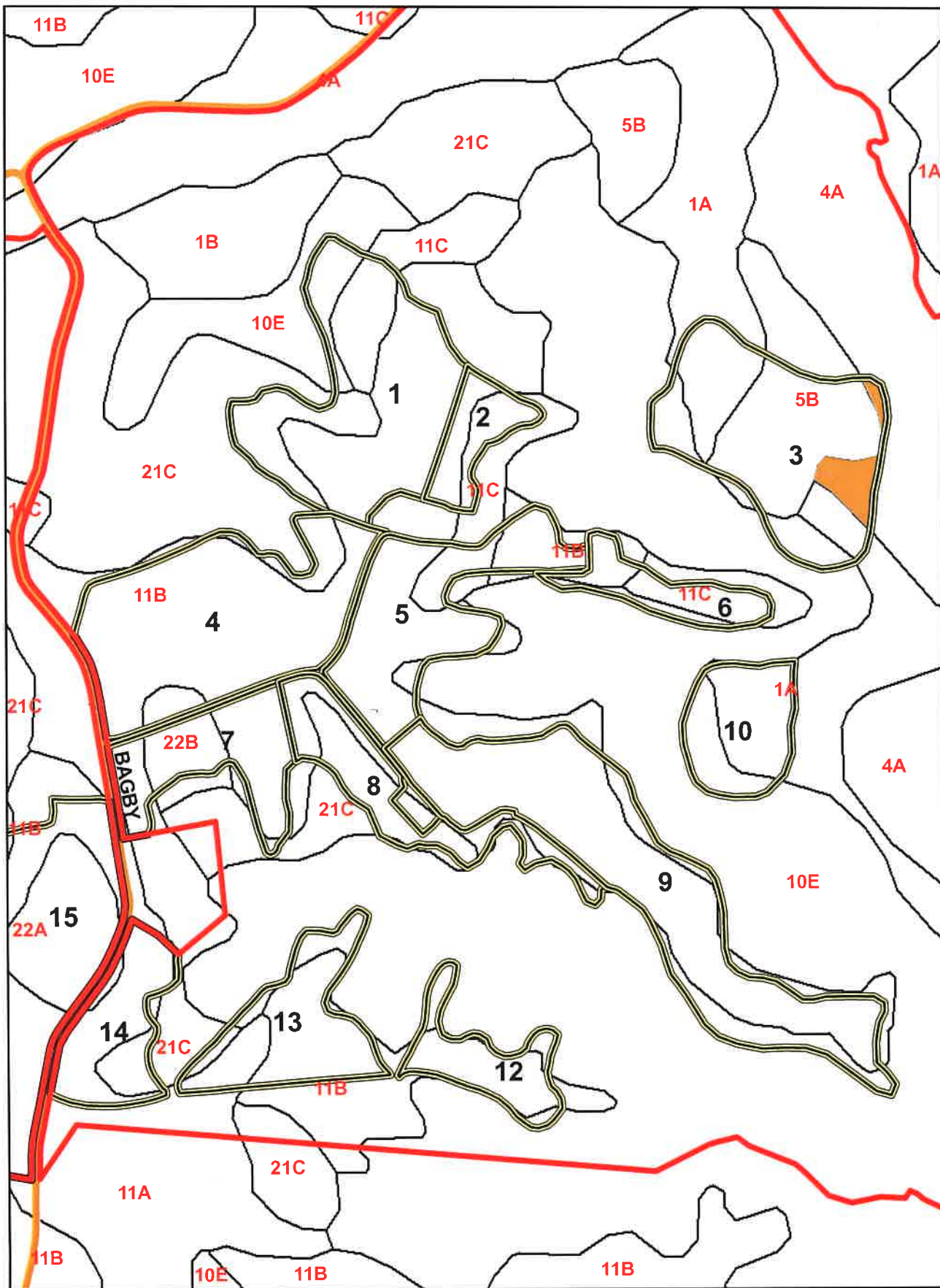
# ADJOINING LANDOWNERS

CARL D. UPSHAW

## CAROLINE COUNTY

Tax Map	Parcel #	Owner Name(s)
74-A	20	Warren L. Andrews
	63	Mary Jo Lunoe and Patricia A. Atkins
	66	Mary Jo Lunoe and Patricia A. Atkins
	67	Mary Jo Lunoe and Patricia A. Atkins
87-A	70	Timothy D. Varley and Christina Y. Gauthier
87-1	2	Edwin T. Upshaw III and Katherine H.
88-A	1	Walter H. Cummings and Kimberly A. Lynch
	1A	Reginald W. Bennett
	5	Carl D. Upshaw, Jr. and Edwin T. Upshaw III and Katherine H.
	6	Benjamin Burruss Jeter
	7	Edwin T. Upshaw III and Carl D. Upshaw, Jr.
	8	Carl Douglas Upshaw, Jr.
	9	Jane E. Groat
	10	Carl D. Upshaw, Jr. and Edwin T. Upshaw III and Katherine H.
	18	Five Poles Farm LLC
	59	Ralph C. Gibson III and Glenn Gordson Gibson
	64	Edwin T. Upshaw III Trustee
	65	Edwin T. Upshaw III Trustee
	66A	Charles Upshaw
	66B	Charles Upshaw
	66C	Charles Upshaw
	70	Todd Beazley
	71	Benjamin K. Adamson
	72	Janet L. Moss and Michael C. Parker
	73	Leo Wayne and Linda Johnson
88-1	B	Edwin T. Upshaw III and Katherine H.

Tax Map	Parcel #	Owner Name(s)
88-2	1	Jeweldene Christian
	2	Mary Jo Lunoe
	2A	William C. Leadbetter and Taylor M. Stanley
	3	Charley W. Deyo, Jr.
	4	Mark J. and Claudia Depollo
	5	Damon L. Gray, Jr. and Kimberly L.
	6	Mary Gray
	7	Damon L. and Mary Gray
	8	Stanley A. Fields III and Jennifer E. Gray
	9	Samuel T. Frantum



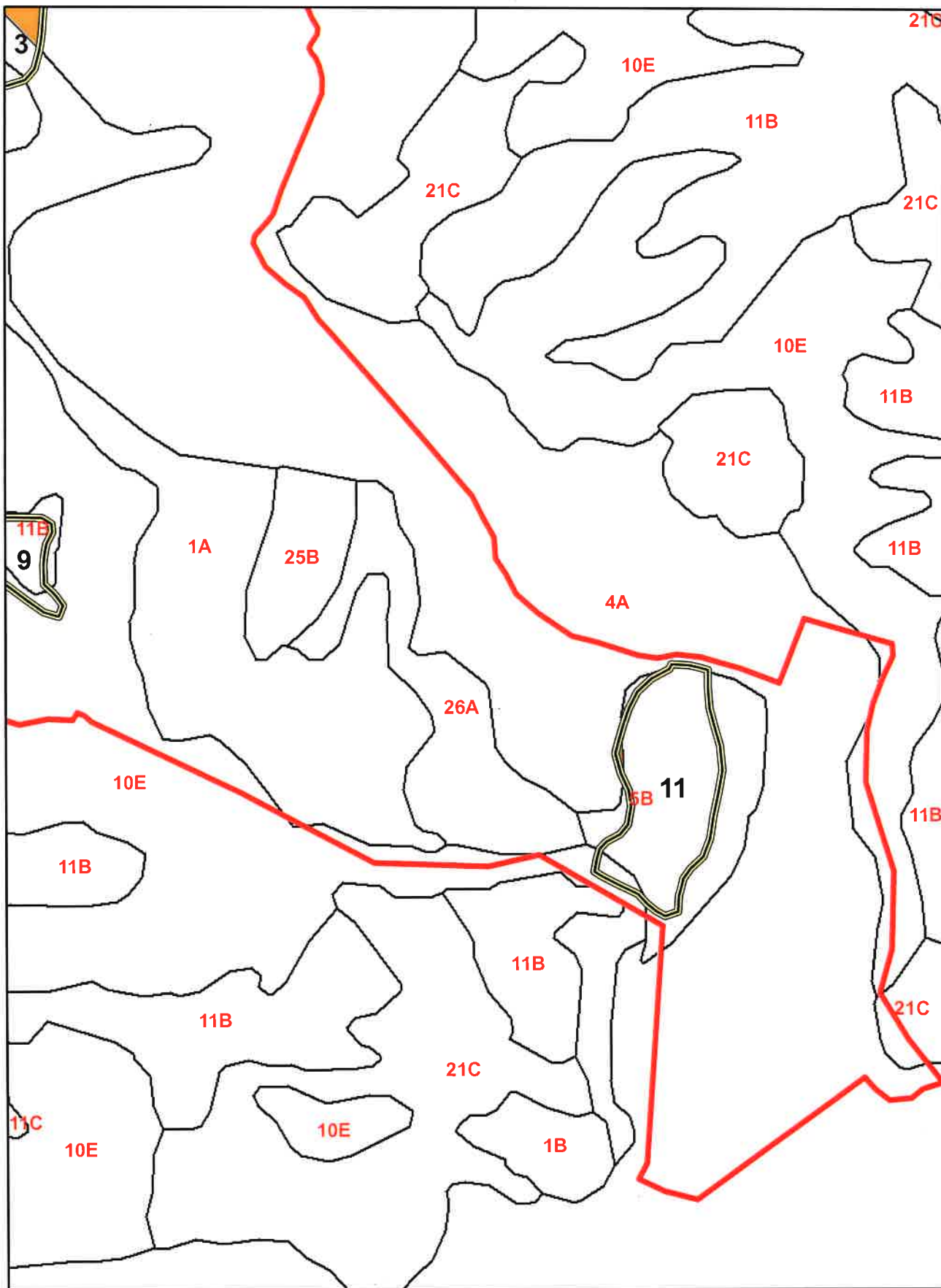
Frequent Flooding  
marked in Orange

6-20-19

SOIL MAP

1 in = 660 feet





Frequent Flooding  
marked in Orange

6-20-19

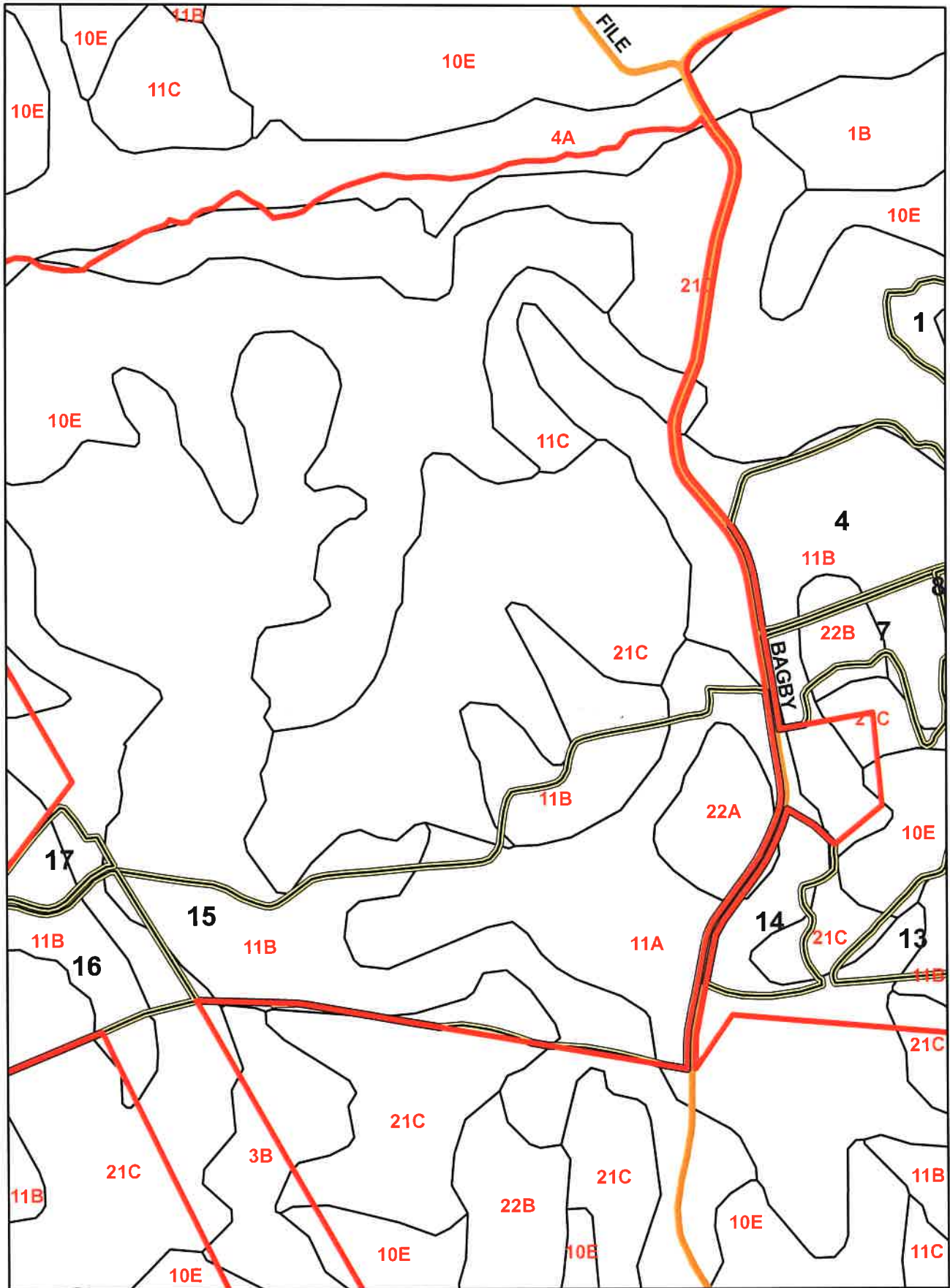
**SOIL MAP**

1 in = 660 feet



**Recyc Systems<sup>®</sup>**  
Inc.

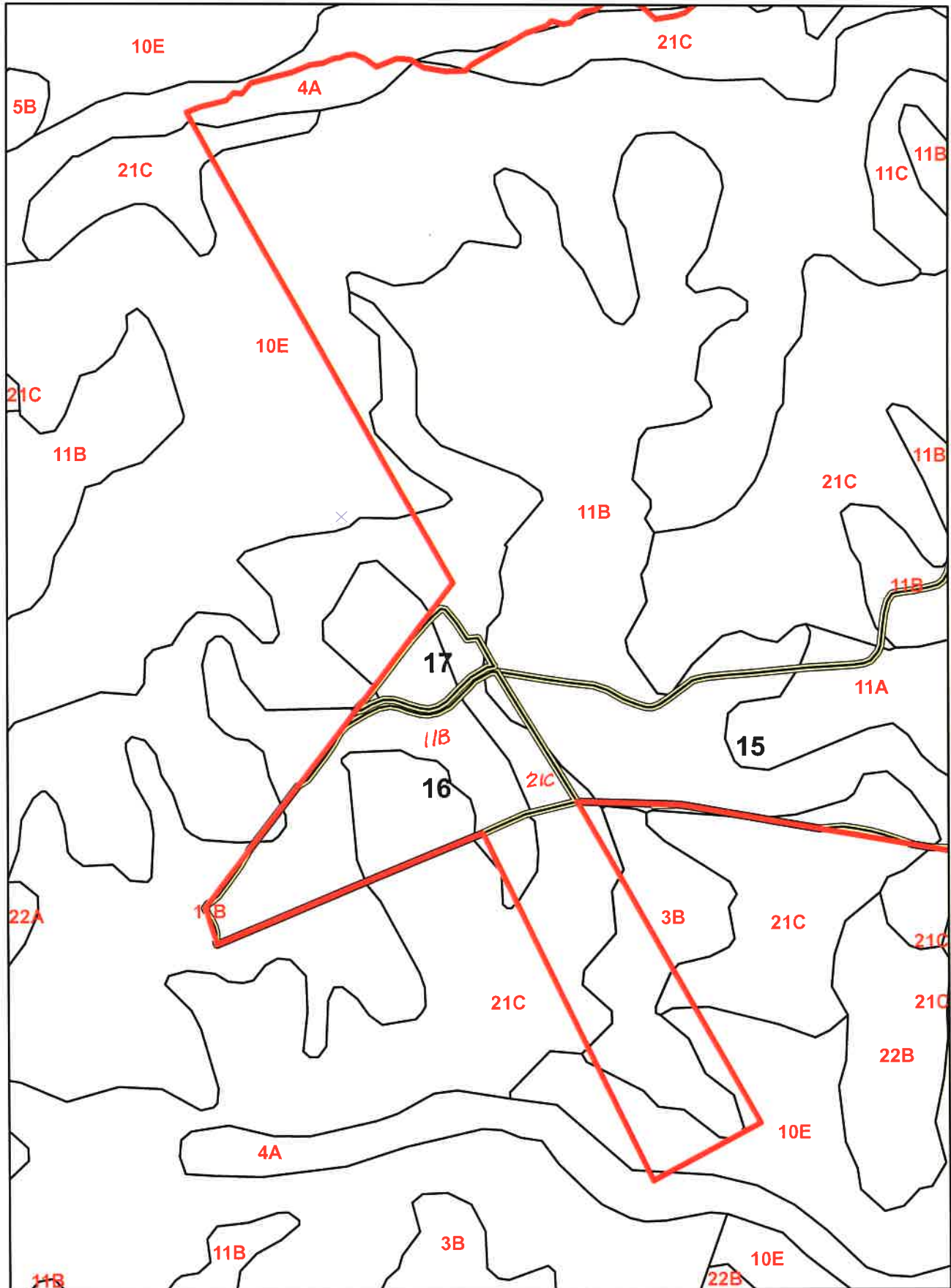
CARL D UPSHAW JR



6-20-19  
Frequently  
Flooded

**SOIL MAP**

1 in = 660 feet



6-20-19



Frequently  
Flooded

## SOIL MAP

1 in = 660 feet





Field Id	Gross Acres
CRCDU-01	19.0
CRCDU-02N	3.9
CRCDU-03N	18.9
CRCDU-04N	20.3
CRCDU-05N	12.5
CRCDU-06N	4.1
CRCDU-07N	9.0
CRCDU-08N	9.5
CRCDU-09N	22.5
CRCDU-10N	7.0
CRCDU-11N	11.1
CRCDU-12N	5.6
CRCDU-13N	9.2
CRCDU-14N	8.1
CRCDU-15N	63.1

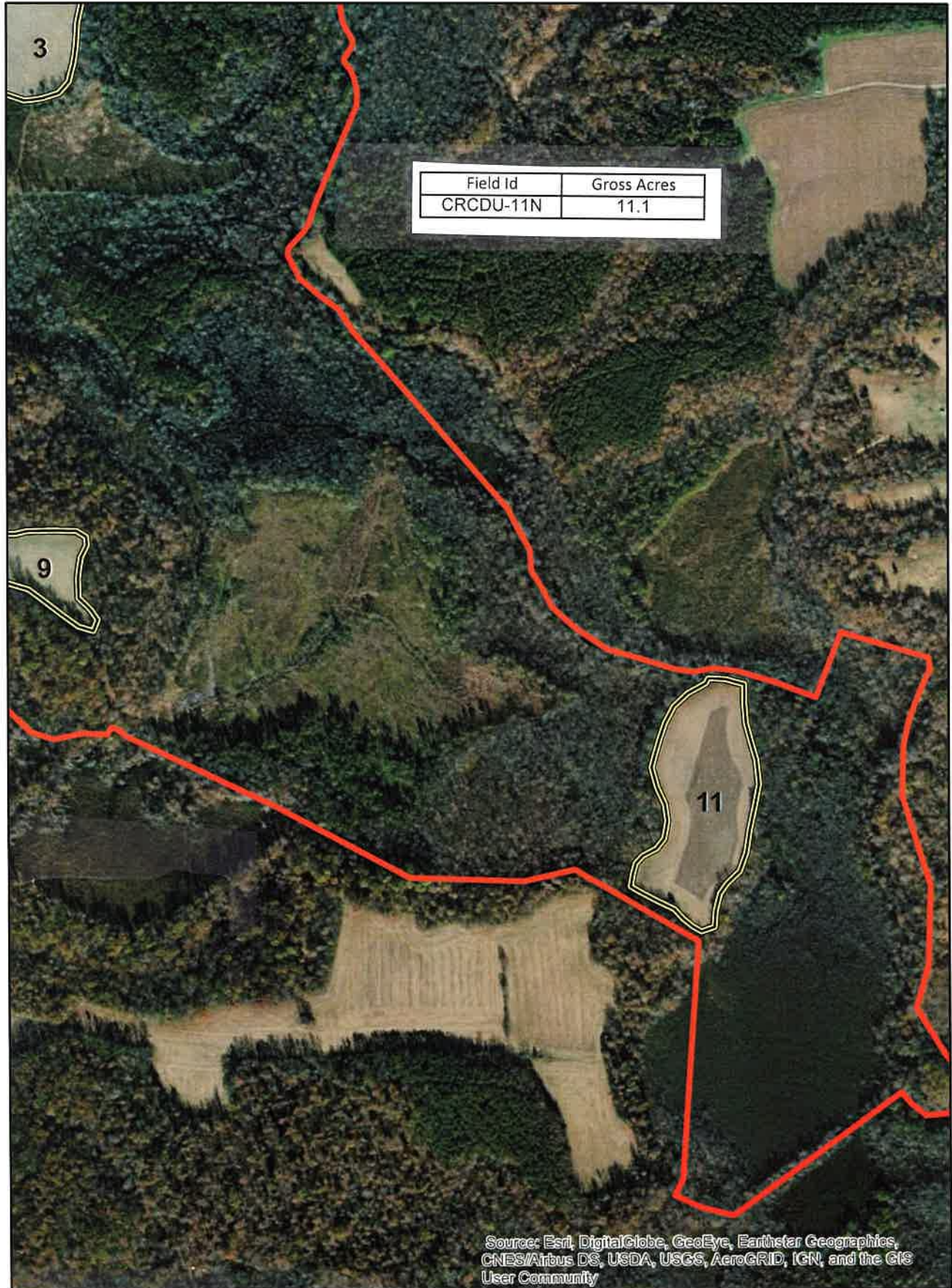


6-20-19

**AERIAL MAP**

1 in = 660 feet



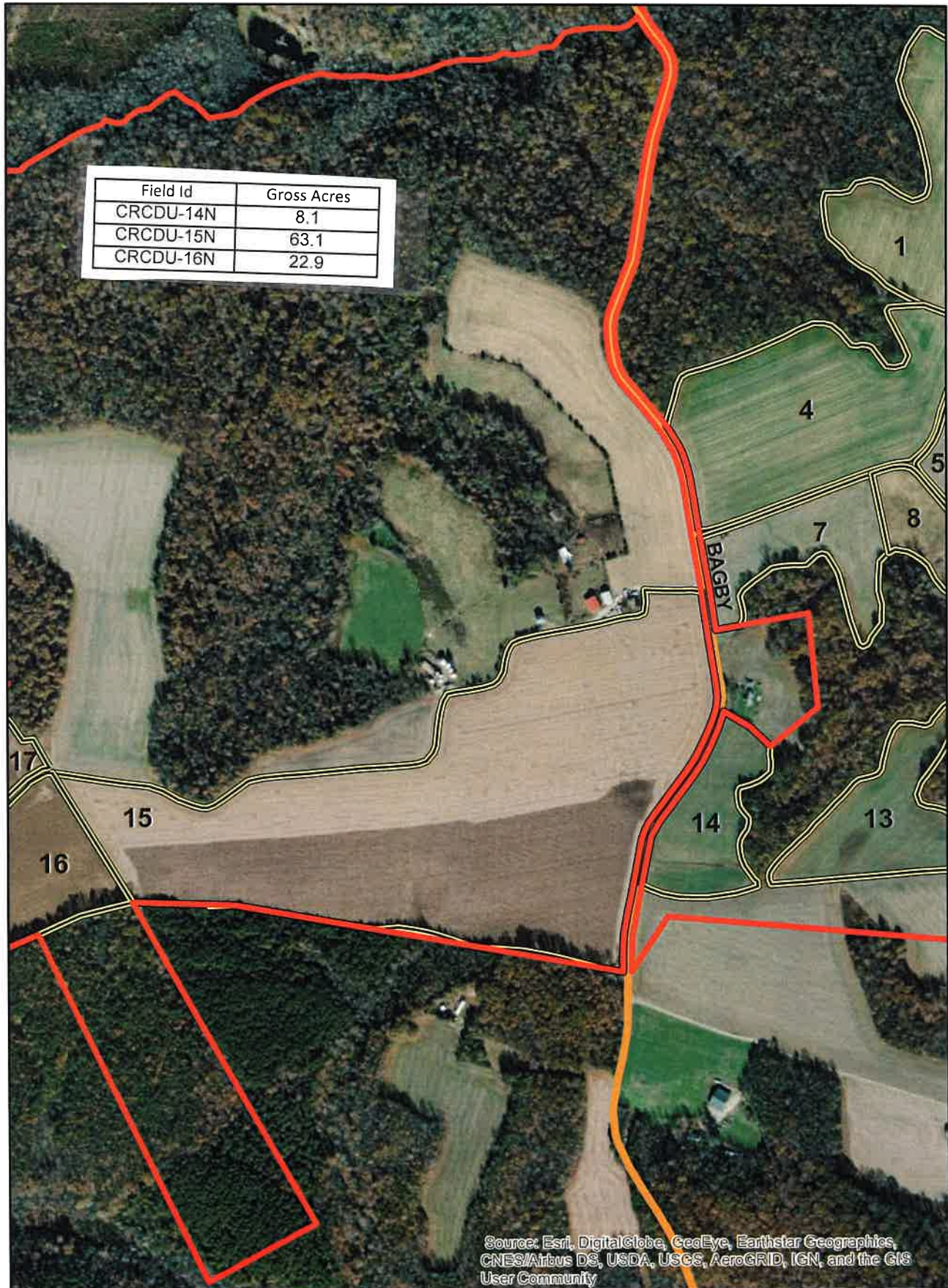


6-20-19

**AERIAL MAP**

1 in = 660 feet



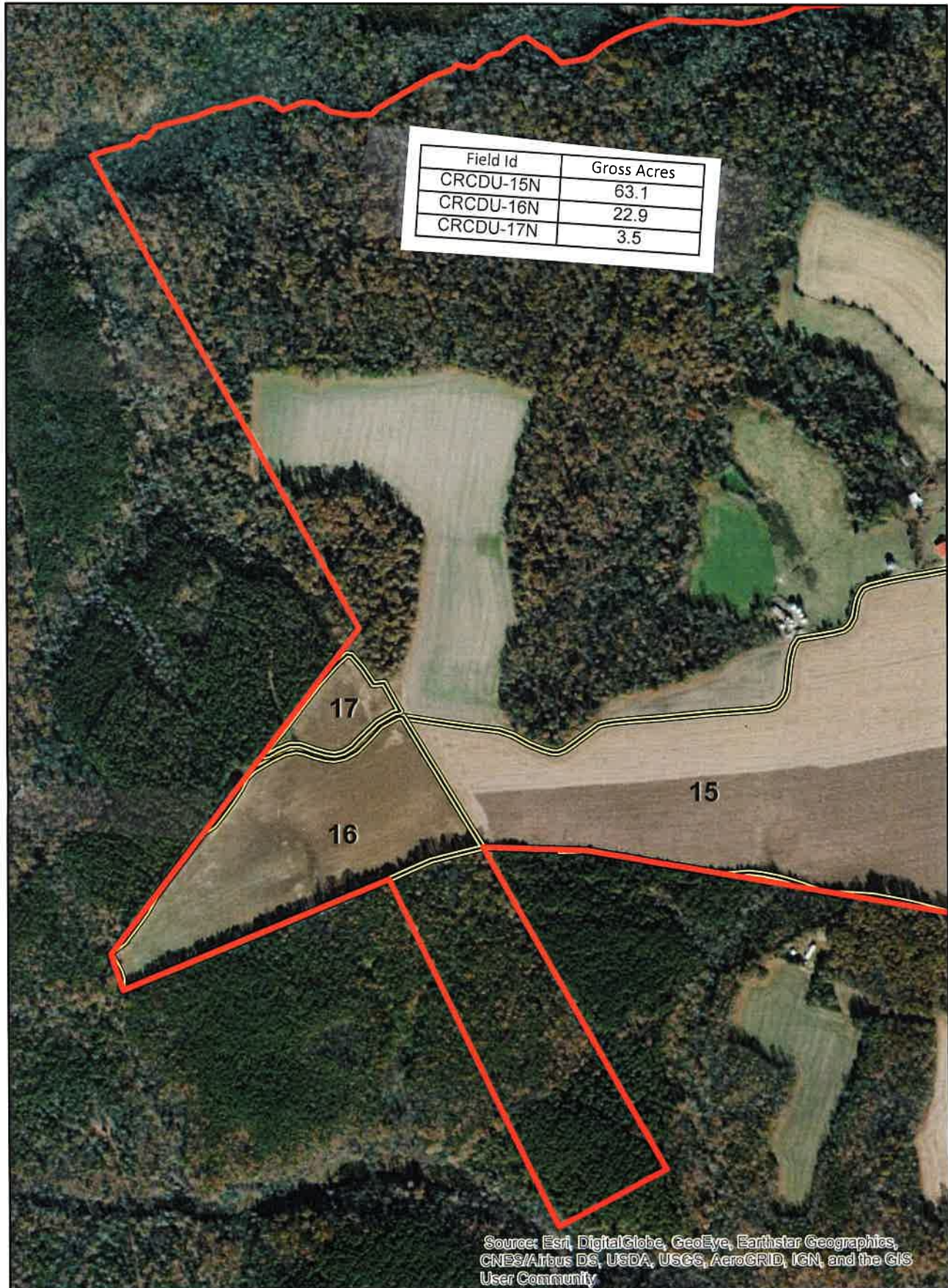


6-20-19

**AERIAL MAP**

1 in = 660 feet





6-20-19

**AERIAL MAP**

1 in = 660 feet





United States  
Department of  
Agriculture

## Caroline County, Virginia

Farm 2865

Tract 3589

2019 Program Year

Map Created June 05, 2019

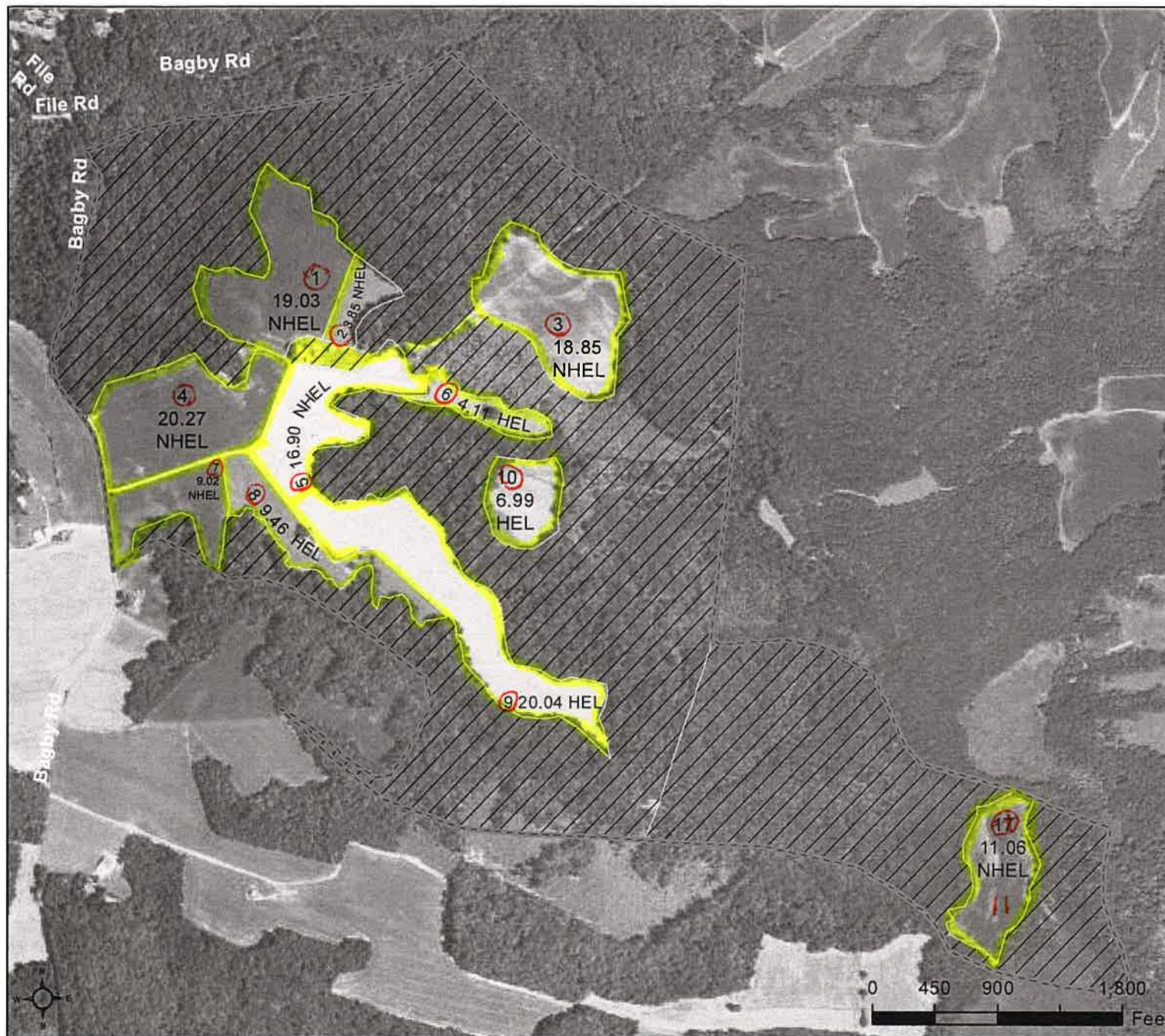
### Common Land Unit

- Non-Cropland
- Cropland
- rcl\_va033
- Tract Boundary

### Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 139.58 acres



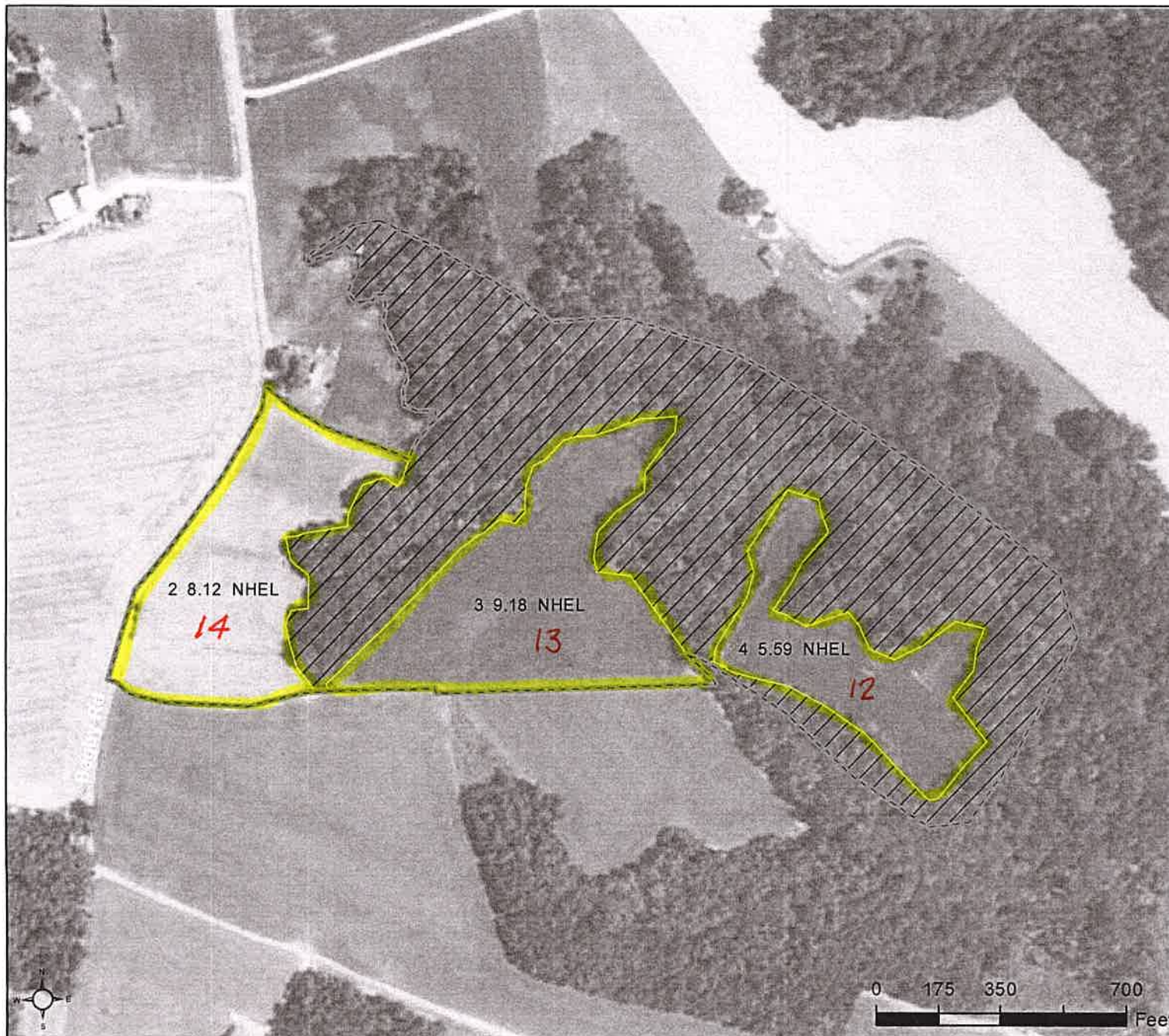
United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).





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Agriculture

## Caroline County, Virginia



**Farm 3096**

**Tract 3777**

**2019 Program Year**

Map Created June 05, 2019

### Common Land Unit

- /// Non-Cropland
- Cropland
- rcI\_I\_va033
- Tract Boundary

### Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation  
Compliance Provisions

Tract Cropland Total: 22.89 acres

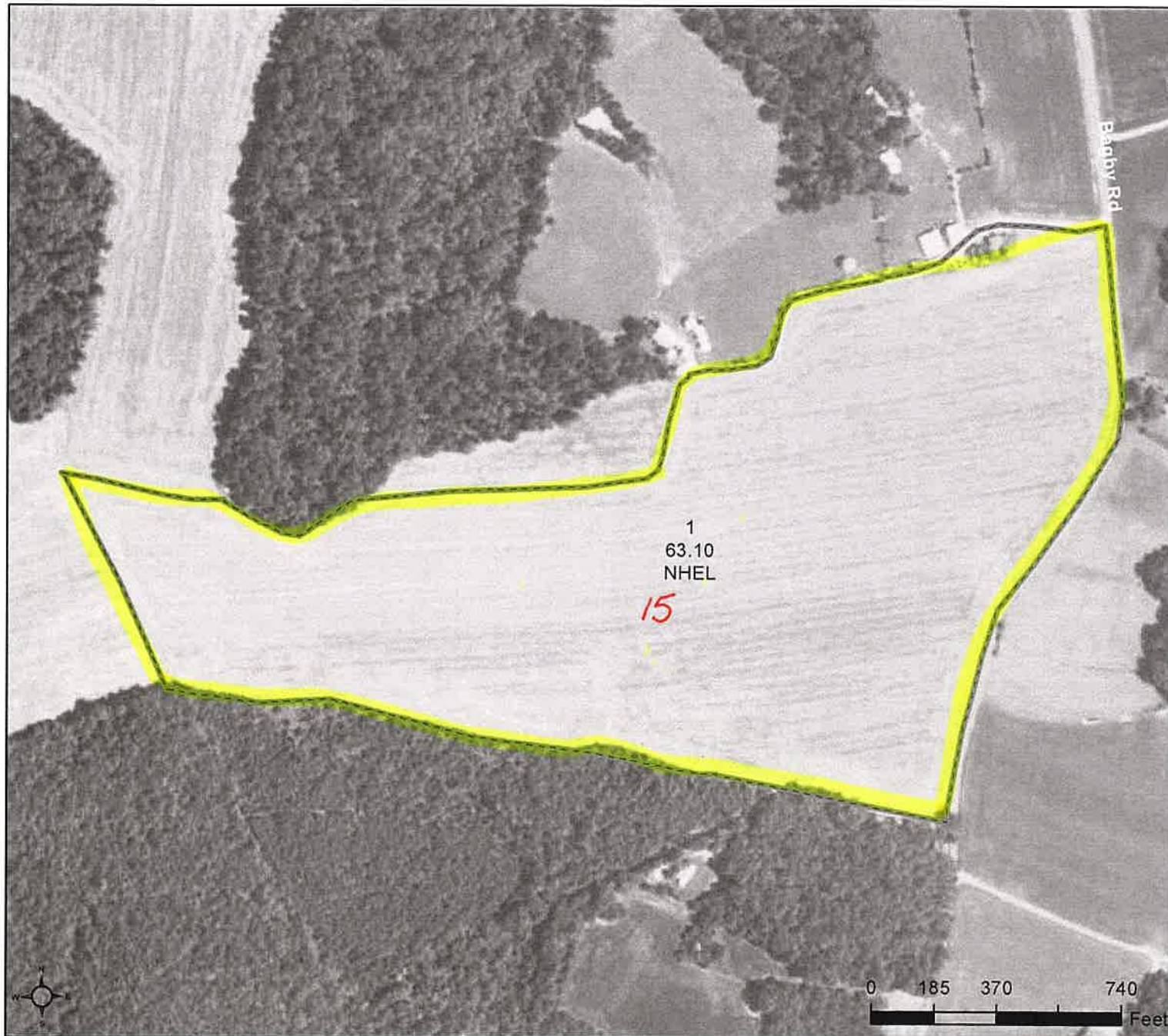
United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).





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Agriculture

## Caroline County, Virginia



**Farm 3096**


**Tract 3585**

**2019 Program Year**

Map Created June 05, 2019

### Common Land Unit

Cropland  
rcl\_l\_va033

 Tract Boundary

### Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 63.10 acres

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Agriculture

## Caroline County, Virginia

**Farm 3096**

**Tract 3588**

1 22.88 HEL

16

**2019 Program Year**

Map Created June 05, 2019

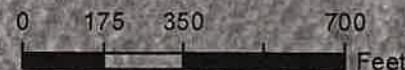
### Common Land Unit

- Non-Cropland
- Cropland
- Tract Boundary

### Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 22.88 acres



United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).





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Agriculture

## Caroline County, Virginia

Farm 3096

Tract 3587

2019 Program Year

Map Created June 05, 2019

### Common Land Unit

- Cropland
- Tract Boundary

### Wetland Determination Identifiers






- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 3.53 acres



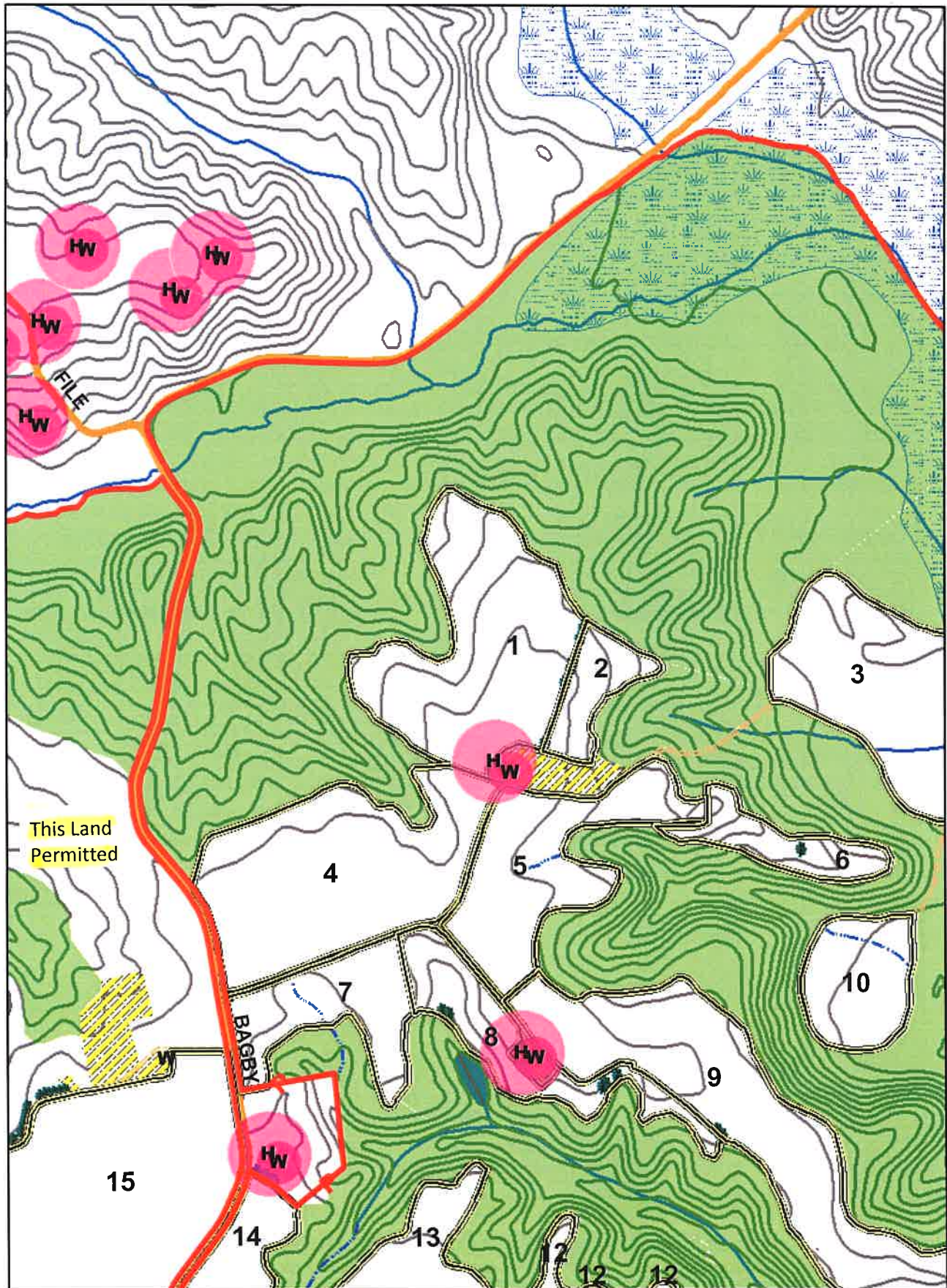
United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

# Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
 	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
  	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
 	Slope	15% maximum
	Hashed out Area	No application

\*Buffer can be reduced or waived upon written consent from landowner.





This Land  
Permitted

BAGBY

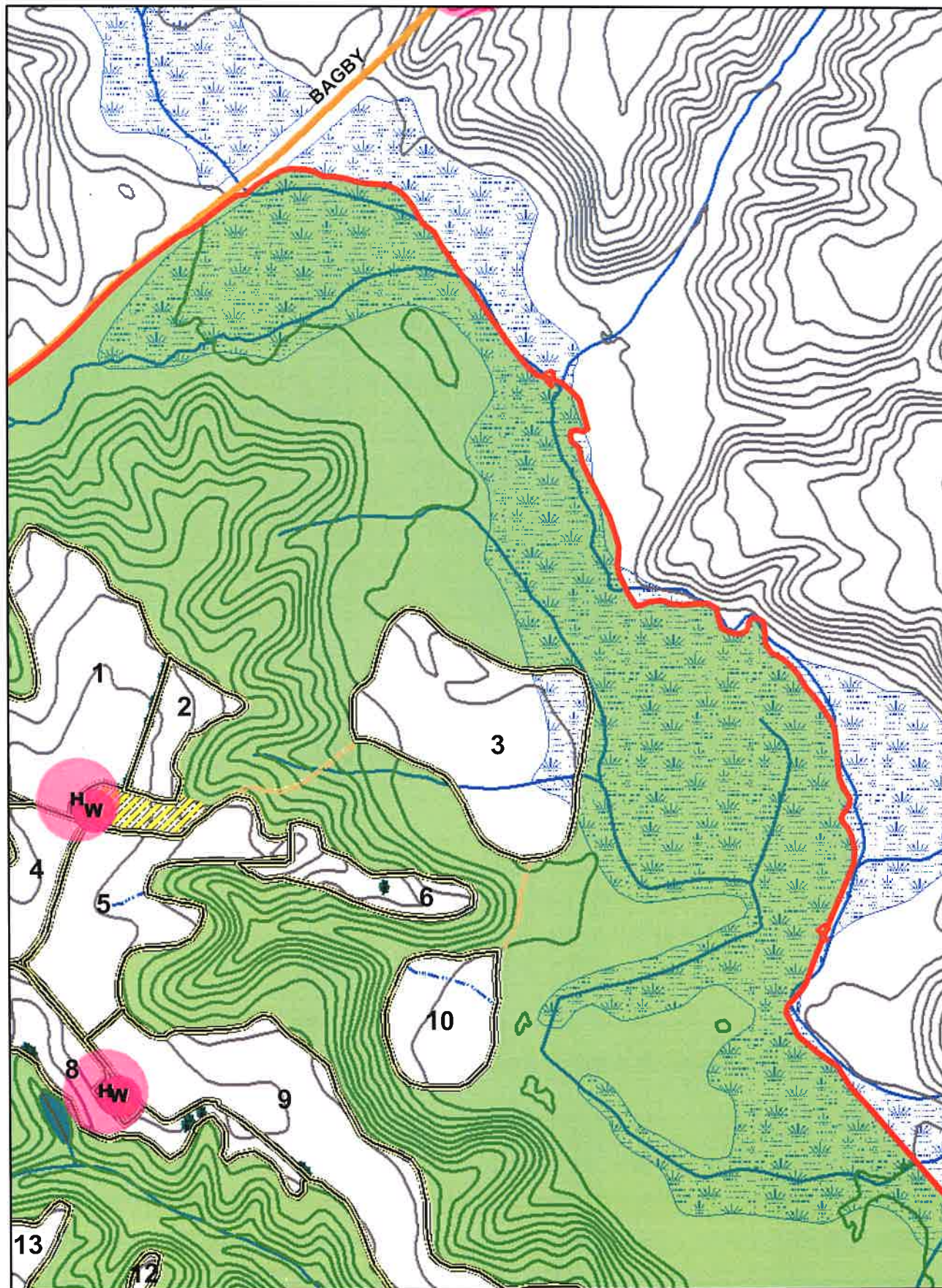


6-20-19

SITE PLAN

1 in = 660 feet



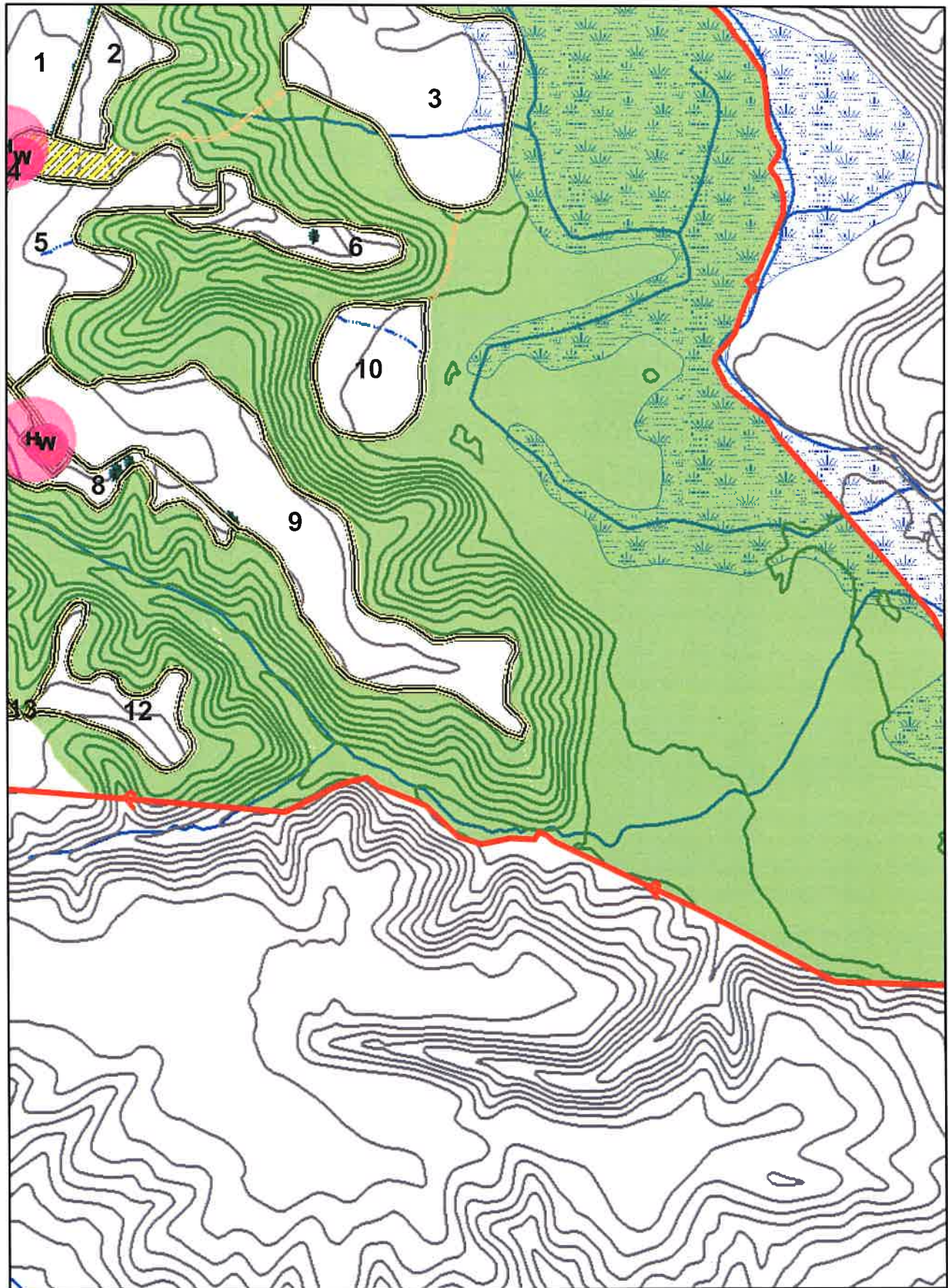


6-20-19

**SITE PLAN**

1 in = 660 feet



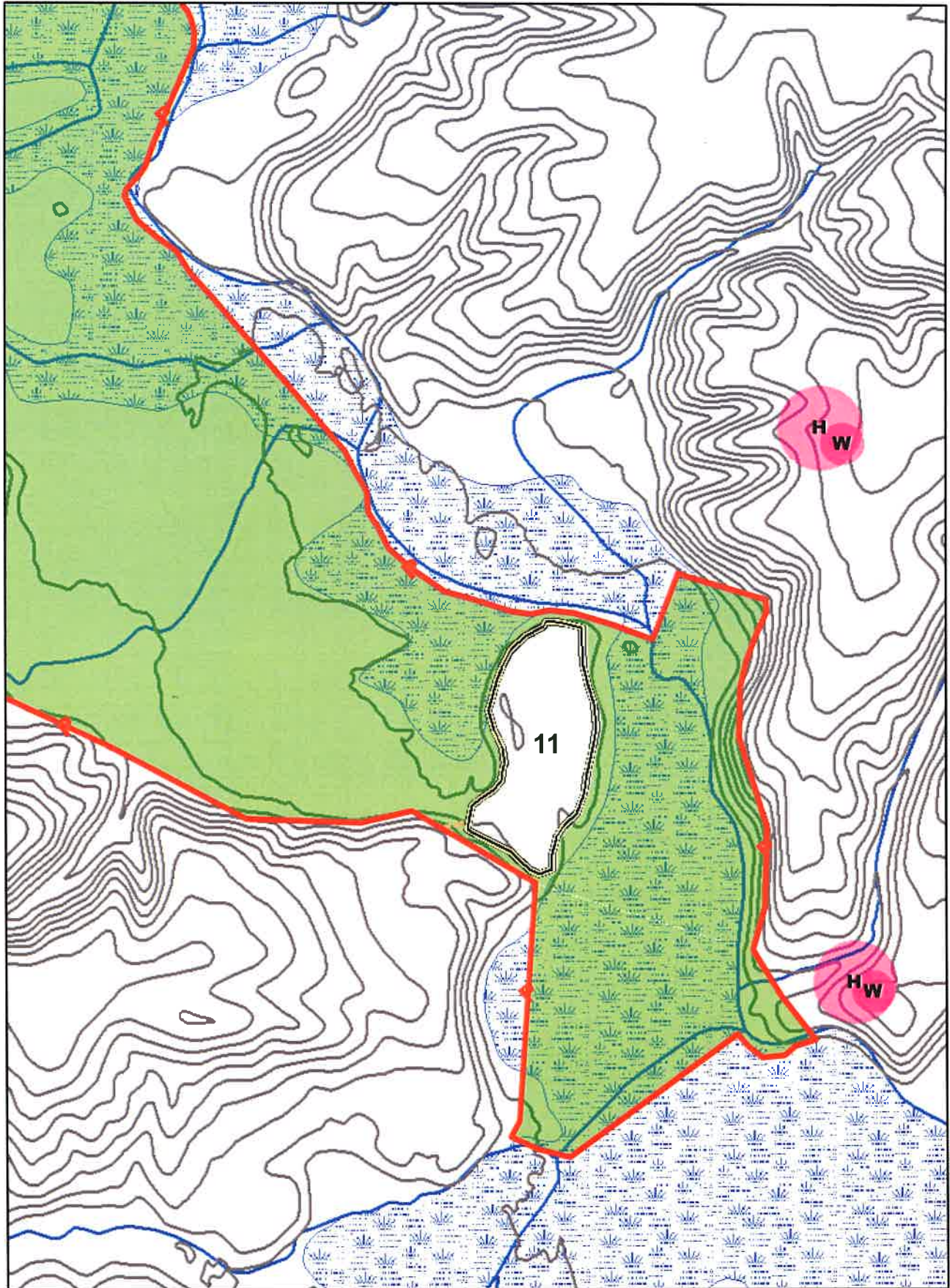


6-20-19

## SITE PLAN

1 in = 660 feet



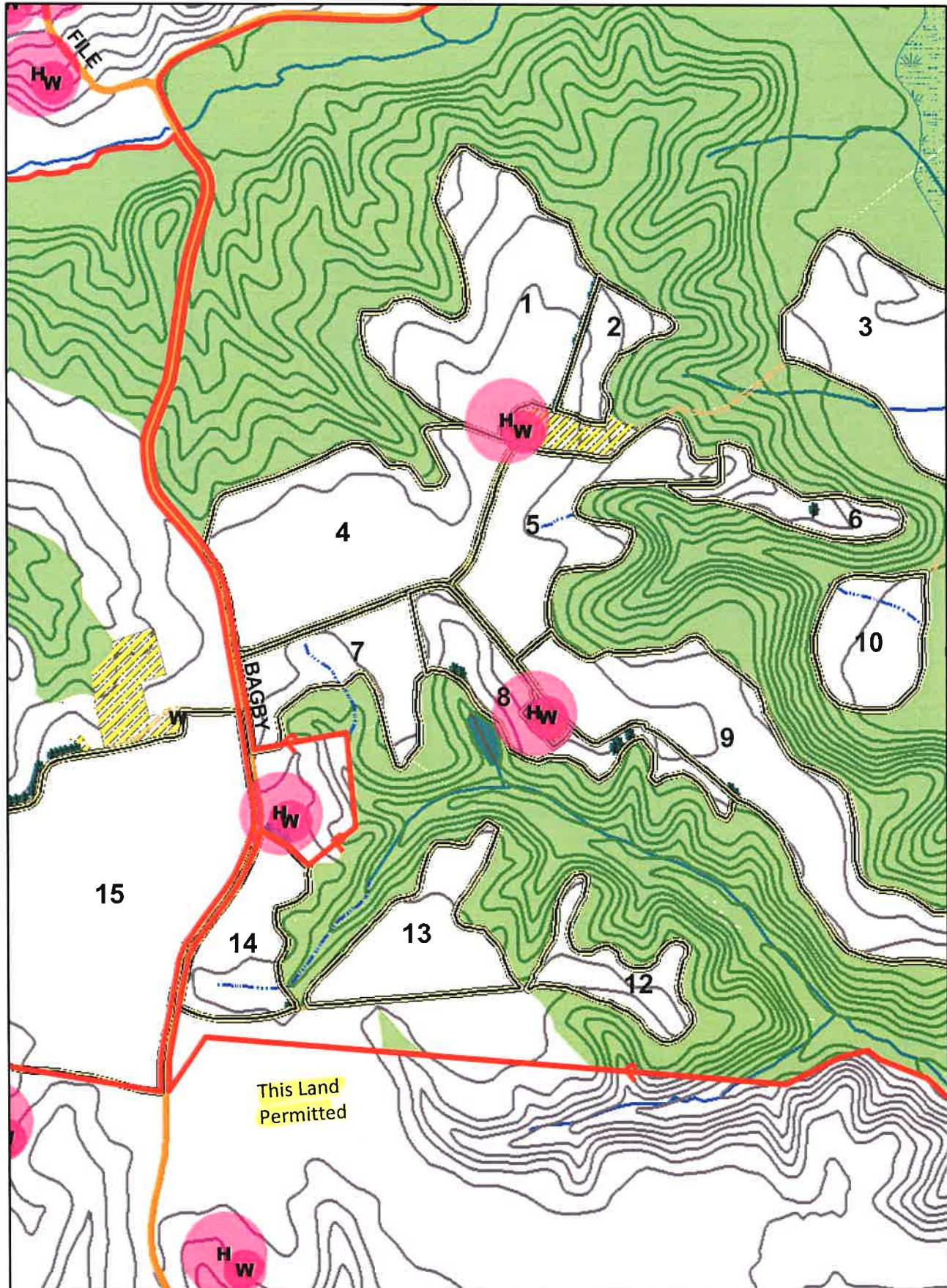


6-20-19

**SITE PLAN**

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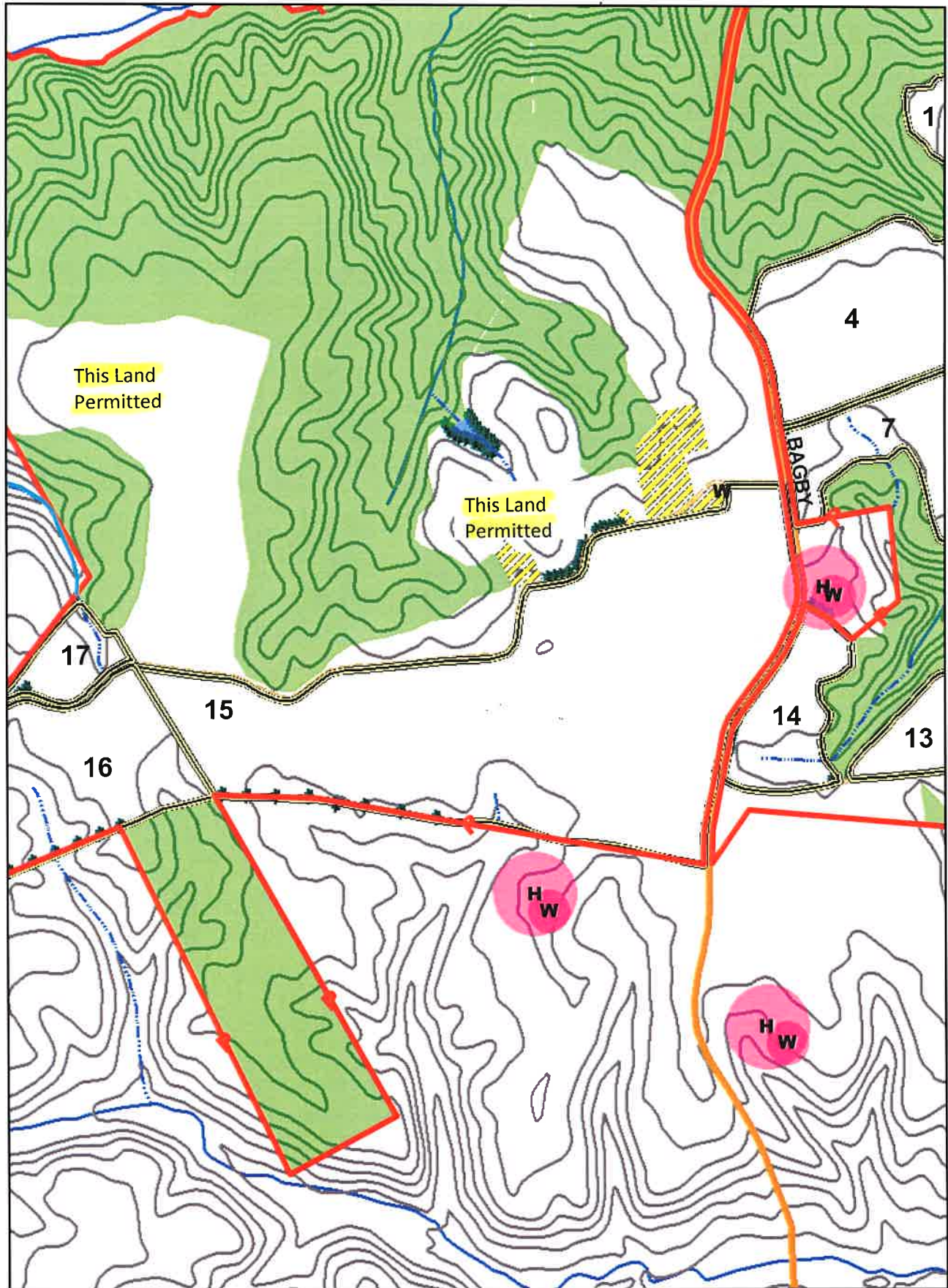


6-20-19

**SITE PLAN**

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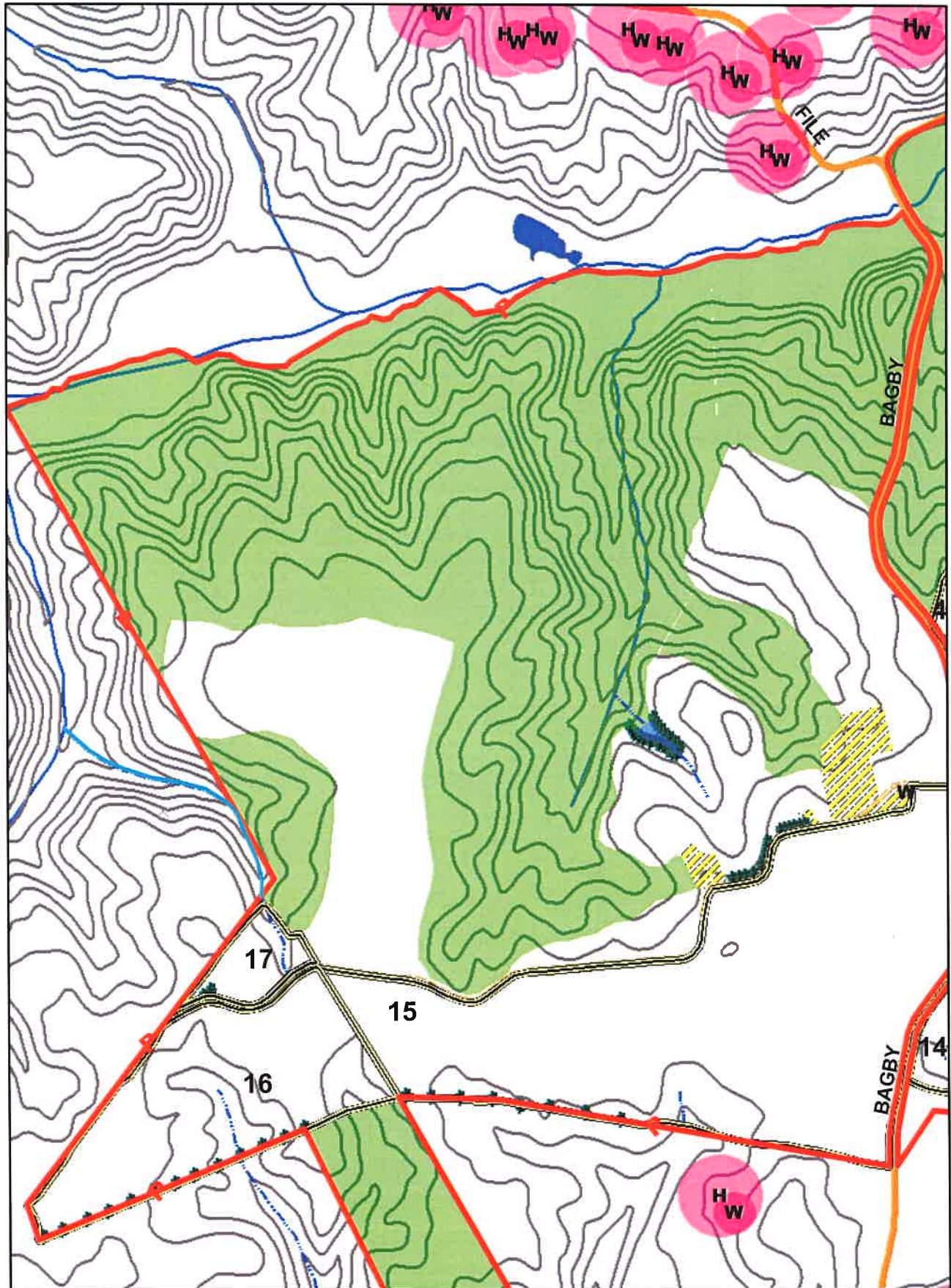


6-20-19

**SITE PLAN**

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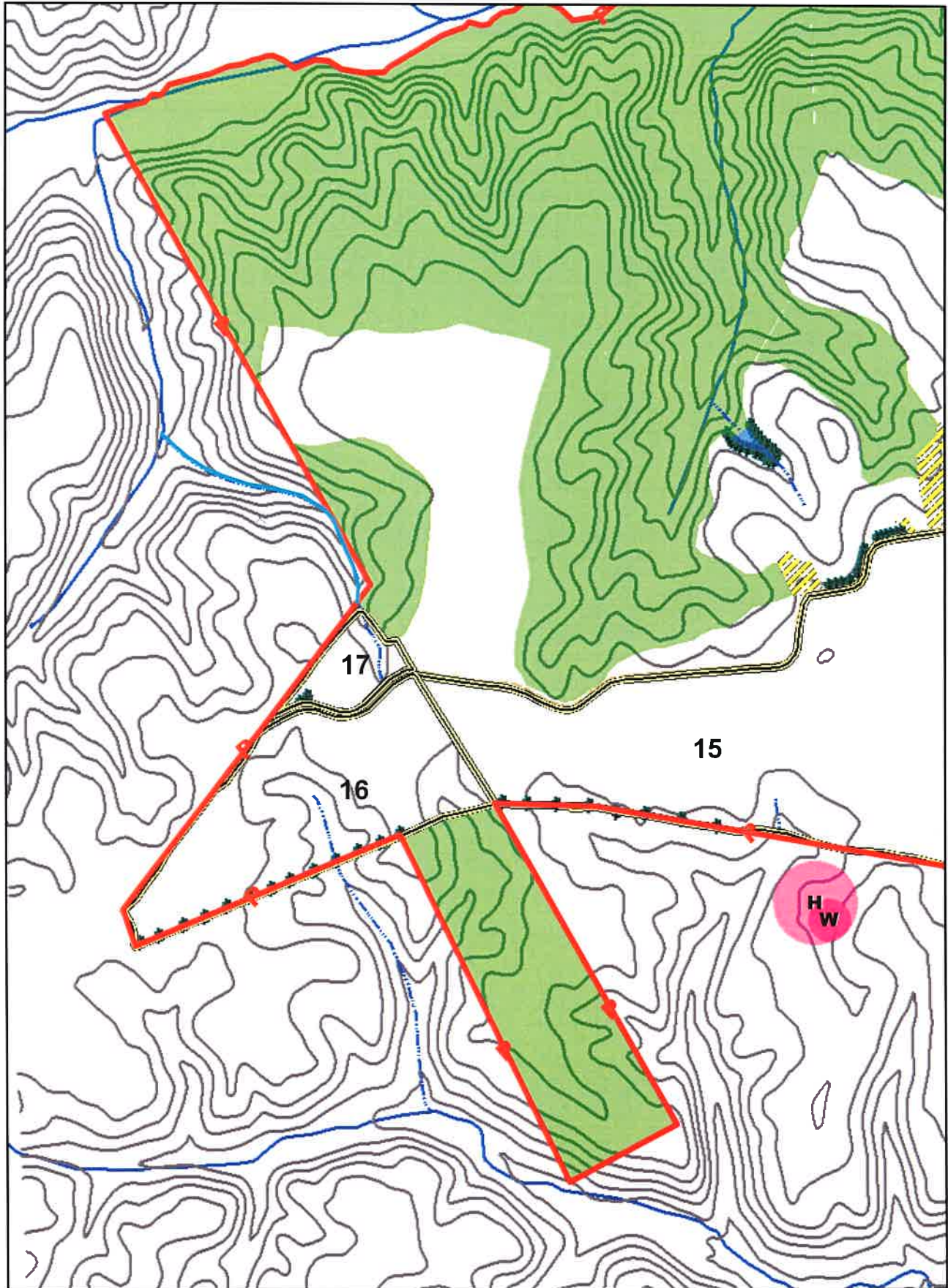


6-20-19

**SITE PLAN**

1 in = 660 feet



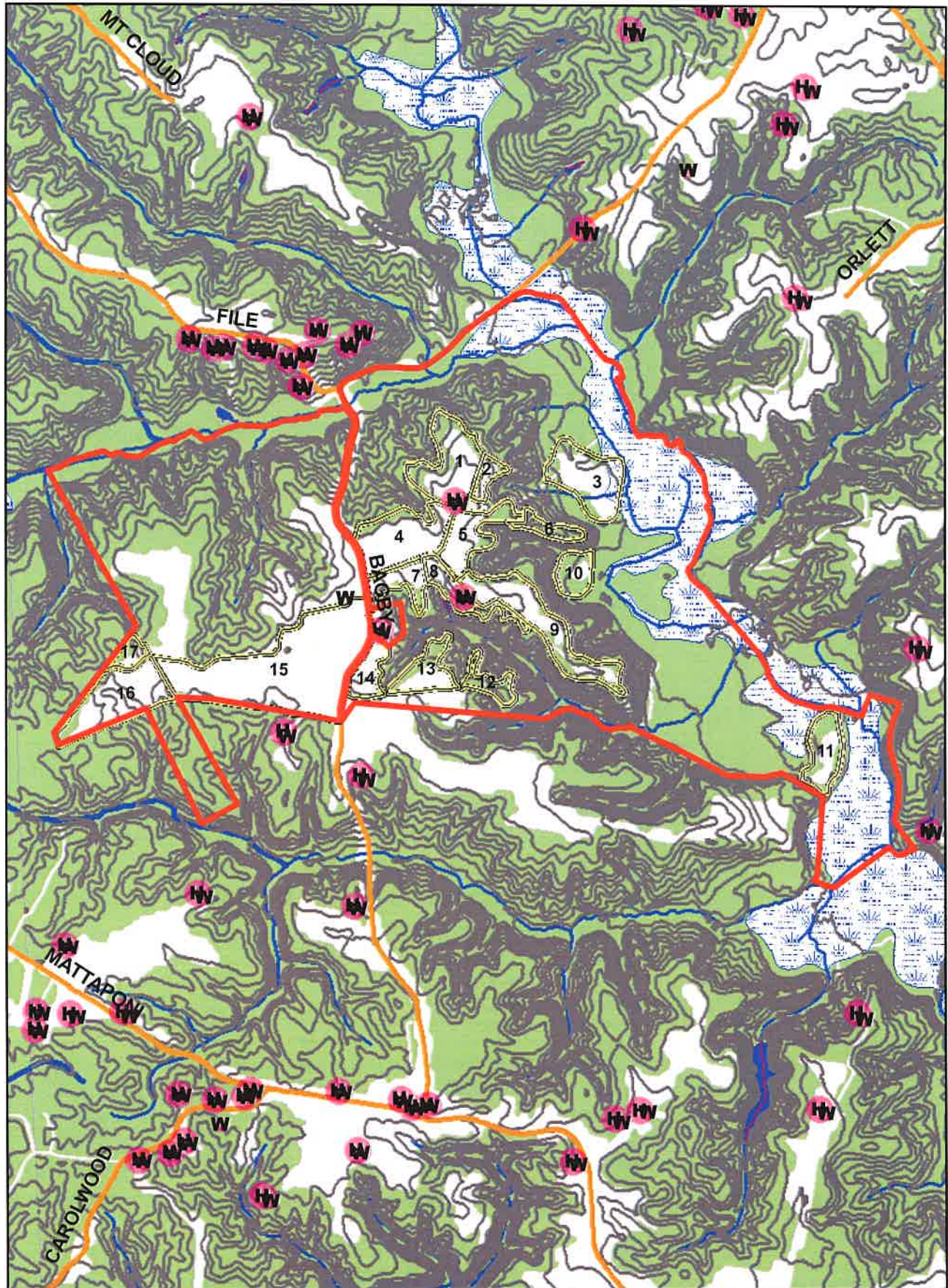


6-20-19

**SITE PLAN**

1 in = 660 feet





6-20-19

TOPOGRAPHIC MAP

1 in = 2,000 feet